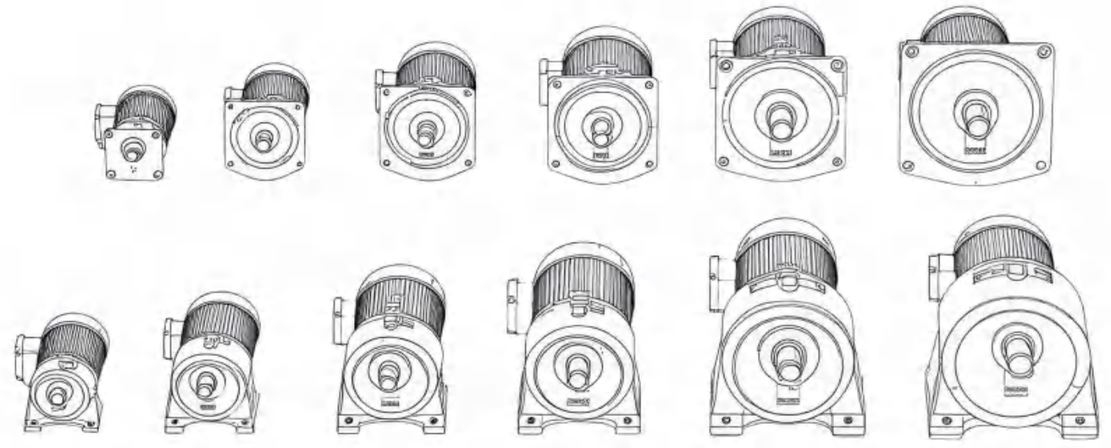


**浙江侨邦精密电机有限公司**
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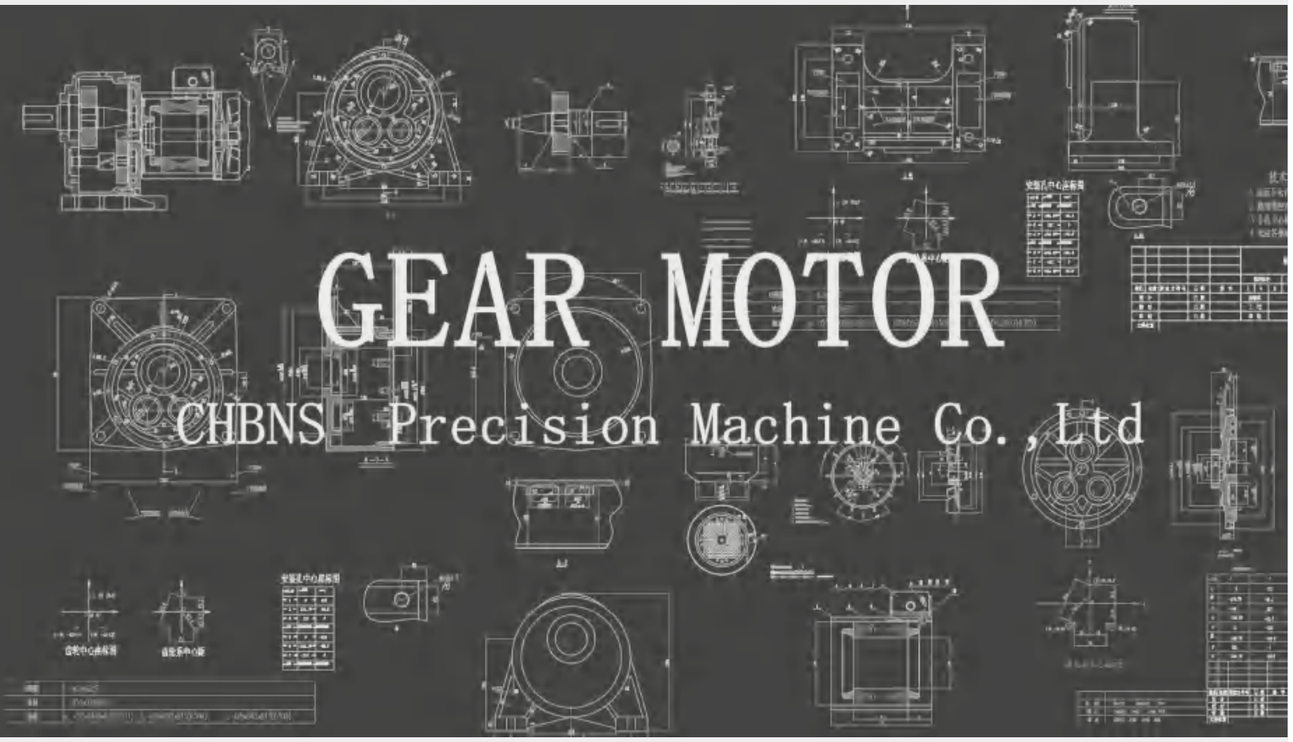


CHBNS

# G Series Gear Reduction Motor

G系列小型齿轮减速电机

We are committed to continuous improvement




Dedicated to exceeding your expectations

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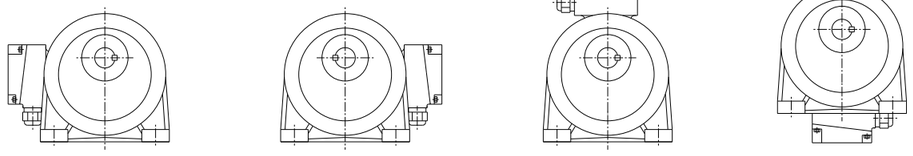
# 小型交流减速电机型号说明方法
# TYPE AND MOTOR MODEL

## 减速电机型号说明 Description Of Motor Model

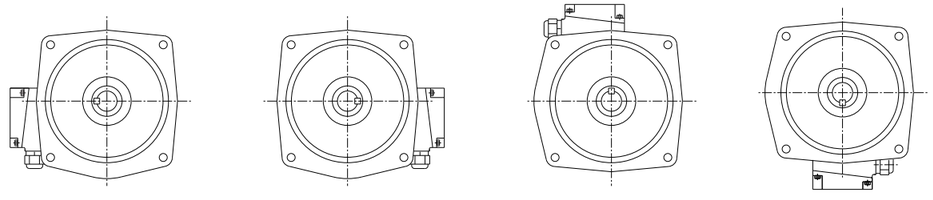
GLW(GLF) - 22 -100 - 50 - SZ - B - G1 - LD - Q1
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

| | |
|---|---|
| ① | G:型号代码 L(H):箱体材质 L代表铝 H代表铸铁 W(F):W卧地脚安装 F立 法兰安装<br>G: Model code L(H): Cabinet material (L stands for aluminum, H stands for cast iron) W(F): W for horizontal foot mounting, F for vertical flange mounting |
| ② | 出力轴直径 Output shaft diameter: 18 22 28 32 40 50 |
| ③ | 输出功率 Output: 100W, 200W, 400W, 750W, 1100W, 1500W, 2200W, 3000W, 3700W, 5500W |
| ④ | 齿轮箱的减速比 Gear ratio: 3, 5, 10...1800 |
| ⑤ | 电机的基本结构 Motor basic data:<br>S: 三相电机 3-Phase motor, 220-240/380-415V, 50/60Hz<br>C: 单相电机 1-Phase motor, 220V, 50/60Hz<br>E: 单相电机 1-Phase motor, 110V, 50/60Hz<br>DV: 单相双电压电机 Double voltage motor, 110V/220V, 50/60Hz<br>Z: 缩框型减速电机 Light type duty<br>(标准型省略 Standard type omit) |
| ⑥ | 刹车器 Brake unit<br>B: DC断电刹车器 Brake unit (另配交变直快速整流器 With quick rectifier from AC to DC)<br>YB: 手持放刹车器 Manual brake unit<br>F1: 110V轴流风机, F2: 220V轴流风机, F3: 380V轴流风机 F1: 110V axial fan, F2: 220V axial fan, F3: 380V axial fan |
| ⑦ | 出轴端看接线盒方位 (如图示) Terminal box direction from output shaft (As shown)<br>G1: 左方向 Left G2: 右方向 Right G3: 上方向 Top G4: 下方向 Down |

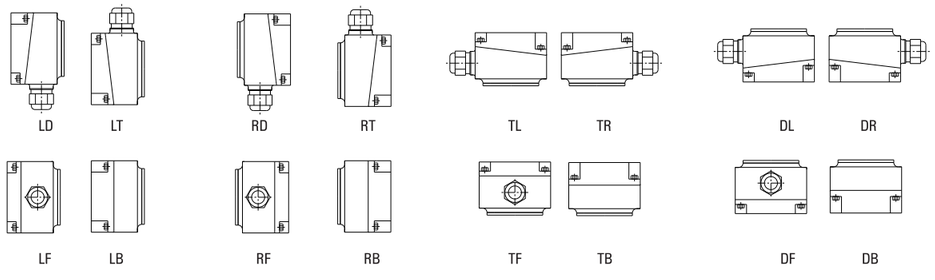
GW 型
GW Type




GF 型
GF Type




| | |
|---|---|
| ⑧ | 出轴端看引出线方位 (如图示) Lead direction from output shaft (As shown)<br>T: 向上 Top D: 向下 Down F: 向前 Forward B: 向后 Back L: 向左 Left R: 向右 Right |

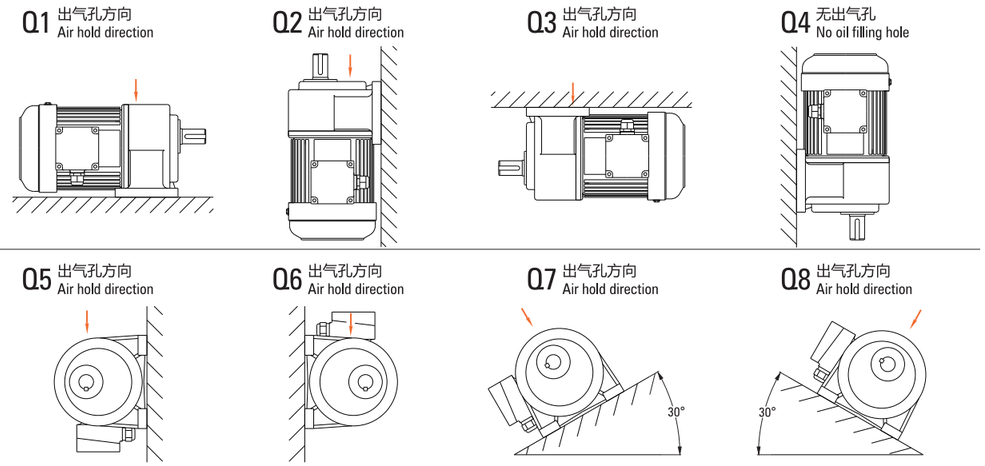


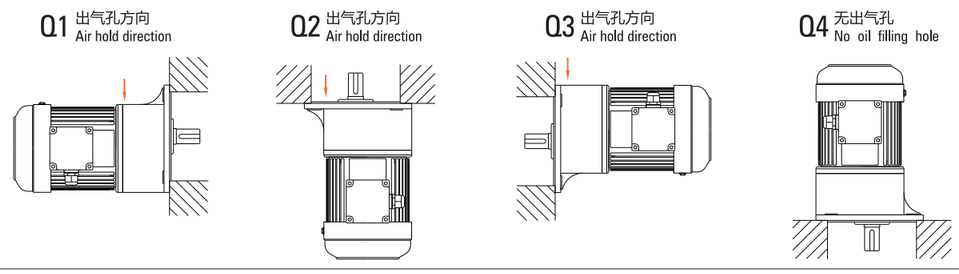



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G系列减速电机选型技术指南 Technical Guide for Selection of G - Series Gear Motors

# 小型交流减速电机型号说明方法
# TYPE AND MOTOR MODEL

| | |
|---|---|
| ⑨ | 出厂标准安装形式：Standrad installaion method<br>本公司出厂所有减速器适用如图安装形式<br>All of out company's reducer can be applied to the following kinds of installation method<br>图中Q1、Q4、Q7、Q8中注油孔方向为标准型<br>In the diagram, Q1, Q4, Q7, Q8 are our standard types of oil hole direction<br>注油孔在特殊位置的，请特别告知，本公司将修改出气孔位置<br>Pls inform us if the location of oil hole is special, we will modify it<br>实际使用时，建议将注油孔中的堵油销拔出，以平衡减速箱内的压力<br>Pls pull out the pin of the oil plug to reduce the pressure in the gearbox during running |




备注：
订购变频电机时，请说明变频范围，减速电机的使用环境工作方式等。
带刹车减速电机总长度需增加10mm。
Note:
For motors supplied by transducer please tell us detailed working modes and working ambient.
The total length of brake motors will be 10mm longer than standard motors.

# 技术资料 TECHNICAL DATA

## 电机基本规范 Motor Specification

| 项目 Item | 三相电机 3-Phase Motor | 单相电机 1-Phase Motor |
|---|---|---|
| 防护等级 Protection | 铝合金壳接线盒为IP54，铁壳接线盒为IP20<br>IP54 with alum alloy terminal box, and other is IP20 | |
| 外壳材质 Frame material | 100W～3700W机壳为铝合金，1#，2#，3#，4#齿轮箱为铝合金，5#，6#齿轮箱为铸铁<br>Alum alloy for 100W～2200W frame, alum alloy for 1#, 2#, 3#, 4# gear case, 5#, 6# cast iron for others | |
| 工作方式 Duty | 连续运转 / Continuous running<br>S1工作制 Duty: S1 | |
| 绝缘等级 INS.class | B级(F级)可选/Optional<br>常规B级（F级可选）Regular class B (Class F can choose) | |
| 适用环境 Environment | 温度 / Temp:-10℃～+40℃<br>湿度 / Humidity:≤90% | |
| 使用电压 Voltage | 220-240/380-415V, 50/60Hz | 110V/50/60Hz, 220V/50/60Hz |
| 极数 Pole | 4P (6P) | 4P |
| 海拔 Height | ≤1000m | |
| 起动方式 Starting | 全压起动 Driect start | 0.1-0.2Kw单电容起动 Capacitor<br>0.4-1.5Kw双电容起动 Double capacitors |
| 依据标准 Standard | GB755/IEC-60034 | |

## 单相电机配套电容值，电容运转形式 Capacitor For 1-phase Motor, C-running Type

| 输出功率 Output Power | 运转电容 Running Capacitor | 起动电容 Starting Capacitor | 运转电容+起动电容（离心开关） Running+Starting Capacitor (Ceutrifugal Switch) |
|---|---|---|---|
| 100W, 1/8HP | 8μF/450V | / | / |
| 200W, 1/4HP | 12μF/450V | / | / |
| 400W, 1/2HP | / | / | 15μF/450V+75μF/250V |
| 750W, 1HP | / | / | 20μF/450V+150μF/250V |
| 1500W, 2HP | / | / | 40μF/450V+200μF/250V |

## 刹车性能说明 Function For Brake Unit

| 输出功率 Output Power | 允许最高转速 Premit Max Rpm | 刹车制动力 Torque (kg.m) | 刹车间隙 Clearance (mm) | 重量 Weight (kg) |
|---|---|---|---|---|
| 1/8HP4P-1/4HP4P (100W-200W) | 4000 | 0.15-0.4 | 0.25-0.5 | 2.0 |
| 1/2HP4P-1HP4P (400W-750W) | 3600 | 0.25-0.7 | 0.25-0.5 | 4.3 |
| 1.5HP4P-2HP4P (1100W-1500W) | 3600 | 0.92-2.0 | 0.25-0.5 | 6.3 |
| 3HP4P-5HP4P (2200W-3700W) | 3600 | 1.80-3.5 | 0.25-0.5 | 7.0 |

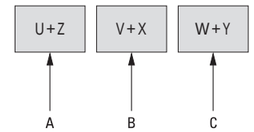


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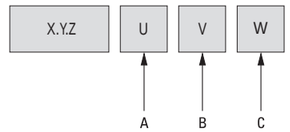
# 接线方式 WIRING DIAGRAM

**三相电机接线方式**
FOR3-PHASE MOTOR

三相电机接线方式 FOR 3-PHASE MOTOR

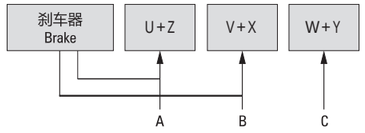



Δ接法/220V-240V



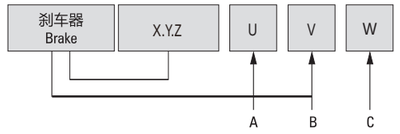

Y接法/380V-415V

三相电机与刹车器接线方式
THE CONNECTION MODE FOR THREE PHASE MOTOR AND BRAKE




Δ接法/220V-240V

※注: 刹车器两根电源线接任意两根接线端。
Note: Brake wires can connect to either pin.

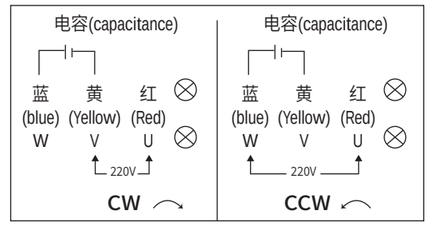



Y接法/380V-415V

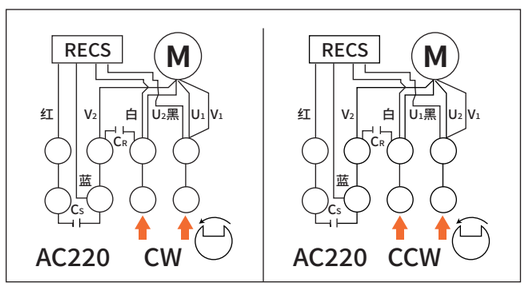
※注: 刹车器电源线一根接电机公共端，另外一根接电机任意一组。
Note: One of brake wire connect to motor public and the other wire connects to either motor wire.

**单相电机接线方式**
FOR1-PHASE MOTOR
**C表示电容**
C FOR CAPACITOR

单相单电容连接方法
SINGLE-PHASE SINGLE-CAPACITOR CONNECTION METHOD



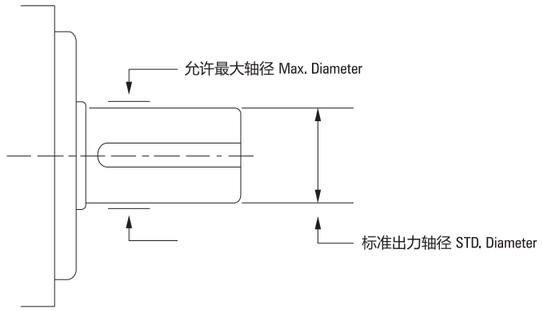

单相双电容带电子离心开关接法
WIRING METHOD FOR SINGLE-PHASE DUAL-CAPACITOR WITH ELECTRONIC CENTRIFUGAL SWITCH




※备注：电机变频时，刹车器请单独接电源。电机使用频率低于30Hz时，必须带轴流风机，轴流风机须独单接电源。
※Note: Please connect brake wire to power single when motor frequency converts. Motor must match a separate fan when run under 30Hz.

# 技术资料
# TECHNICAL DATA

## 输出轴允许最大轴径 Available Max Output Shaft Diameter




| 齿轮箱型号 Gear Box | 标准出轴直径 Atanddre Output Shaft Dia | 最大允许直径 Max Availablet Shaft Dia | 输出端轴承 Output Eed Bearing |
|---|---|---|---|
| 1# | Φ18 | Φ20 | 6004 |
| 2# | Φ22 | Φ25 | 6205 |
| 3# | Φ28 | Φ30 | 6206 |
| 4# | Φ32 | Φ35 | 6207 |
| 5# | Φ40 | Φ45 | 6209 |
| 6# | Φ50 | Φ55 | 6211 |

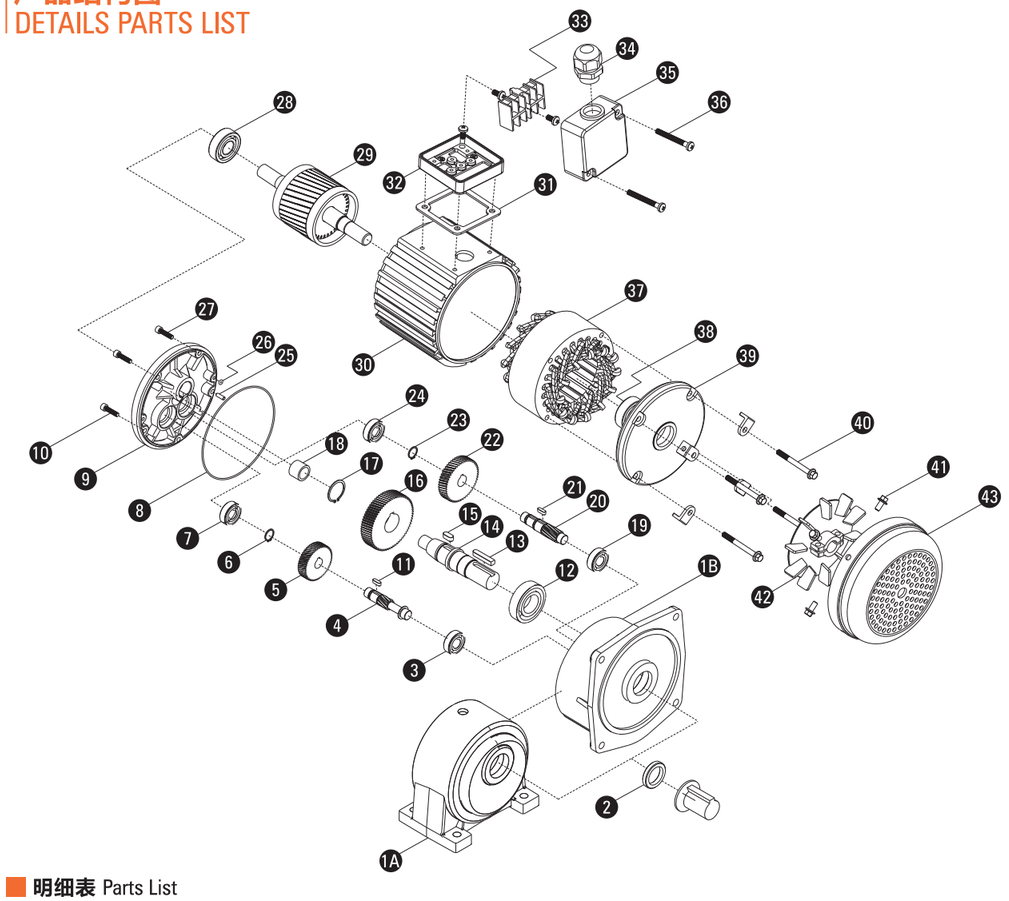
## 减速电机各零件部分大致说明 Main Parts Notes

| 部件名称 Parts Name | 说明 Notes |
|---|---|
| 箱体 Gearbox | 1#、2#、3#、4#箱体出轴直径为18、22、28、32，箱体采用铝合金，5#、6#箱体出轴直径为40、50，箱体采用铸铁.<br>The output shaft diameter of gearbox 1#、2#、3#、4# are 18、22、28、32 separately. The material of gearbox is Al. alloy.<br>5#、6# are 40、50 respectively. Gearbox is made of cast iron. |
| 齿轮片 Gear piece | 齿轮材料为40Cr，调质HB280，高精度滚齿，齿部高频淬火HRC50，齿面磨齿，齿轮精度6级.<br>The material 40Cr mixes to HB280, then dealed with high frequency quencher HRC50.<br>Gear should be processed by milling with high precision. The class is 6. |
| 齿轮轴 Gear shaft | 齿轮材料为20CrMnTi，高精度滚齿，渗碳淬火HRC60，齿面二次刮削，精度6级.<br>The material 20CrMnTi will be changed into HRC60 through processing of cementite quencher.<br>Gear shaft will be processed with gear hobbing. Precision class is 6. |
| 电机轴 Motor shaft | 齿轮材料为20CrMnTi，高精度滚齿，渗碳淬火HRC60，齿面二次刮削，精度6级.<br>The material 20CrMnTi will be changed into HRC60 through processing of cementite quencher.<br>Gear shaft will be processed with gear hobbing. Precision class is 6. |
| 轴承 Ball bearing | 电机部分轴承采用高精度等级精密轴承，以确保长期运转寿命.<br>We adopt tight bearing with high precision, to make sure longterm running life. |
| 油封 Oil seal | 电机轴以耐高温油封为主，可有效防止油脂渗漏.<br>Gear shaft gives priority to enduring high temp, avoiding oil infiltration. |
| 接线盒 Terminal box | 有两种：一种是铝合金接线盒，有较好的防水及防尘性能，防护等级为IP54.<br>另外一种是铁壳的接线盒，结构轻巧，防护等级IP20.<br>Two type. One is Al alloy, which equipes good capability of waterproof and dustproof. Protection grade is Ip54.<br>The other is steel case with deft structure. Protection grade is IP20. |



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# 产品结构图
# DETAILS PARTS LIST




## 明细表 Parts List

| 序号 Item | 名称 Name | 序号 Item | 名称 Name | 序号 Item | 名称 Name |
|---|---|---|---|---|---|
| 1A | 卧式 Horizontal housing | 15 | 三级小齿轴键 Key-3RD pinion | 30 | 机壳 Shell |
| 1B | 立式 Vertical housing | 16 | 三级大齿轮 Gear-3RD stage | 31 | 密封垫 A seal |
| 2 | 输出轴油封 Oil seal-output shaft | 17 | C-挡圈 Snap ring | 32 | 接线盒底座 Junction box base |
| 3 | 二级齿轴承 Bearing-2ND stage pinion | 18 | 输出轴自润轴承 Oilless bearing | 33 | 接线端子 Terminal block |
| 4 | 二级小齿轴 Pinion-3ND stage | 19 | 二级齿轴承 Bearing-2ND stage pinion | 34 | 锁紧器 Locking device |
| 5 | 一级大齿轮 Gear-1ST stage | 20 | 三级小齿轴 Pinion-2ND stage | 35 | 接线盒盖 Junction box |
| 6 | C-挡圈 Snap ring | 21 | 三级小齿轴键 Key-3RD stage pinion | 36 | 固定螺钉 Fixed screw |
| 7 | 二级齿轴承 Bearing-2ND stage pinion | 22 | 二级大齿轮 Gear-2RD stage | 37 | 定子总成 Stator |
| 8 | O型圈 Oil ring | 23 | C-挡圈 Snap ring | 38 | 电机轴承 Bearing of shaft |
| 9 | 电机前盖 Front cover | 24 | 三级齿轴承 Bearing-3ND stage pinion | 39 | 后端盖 Back cover |
| 10 | 内六角螺钉 Hex-head screw | 25 | 定位销 Pin | 40 | 固定螺栓 Fixed bolt |
| 11 | 二级小齿轴键 Key-2RD stage pinion | 26 | O型圈 Oil ring | 41 | 内六角螺钉 Hex-head screw |
| 12 | 输出轴承 Bearing-output shaft | 27 | 内六角螺钉 Hex-head screw | 42 | 风叶 Fan |
| 13 | 输出轴键 Key-output shaft | 28 | 电机轴承 Bearing of shaft | 43 | 风罩 Fan cover |
| 14 | 输出轴 Output shaft | 29 | 转子 Rotor | | |

# 安全注意事项 SAFETY CAUTIONS

| | |
|---|---|
| 总体 General | 请不要在齿轮箱及电机铭牌或产品目录的规格以外使用，以免触电，受伤及损坏装置等。<br>Please don't use motor out of the range which is clarified in of nameplate of gear box and motor and the specification of product catalogue, avoiding getting an electric shock, hurting or damaging the device.<br>请不要把手指或物品进入齿轮或电机开口部分，以免触电、受伤、发生火灾及损坏装置等。<br>Please do net put your fingers into the opening part of gear of motor, in order to prevent getting an electric shock, hurting catching a fire or damaging device etc.<br>请不要使用带伤的齿轮箱或电机，以免有可能受伤，发生火灾等。<br>Please do not use the injured gear head or motor, in order to prevent hurting, catching a fire etc.<br>请不要拆下铭牌。<br>Please do not put off the nameplate.<br>若客户对产品私自进行改造的，不属于保修范围，本公司不承担任何责任。<br>If the products are reformed by the customers personally, it no belongs to the guarantee scope, and our company doesn't undertake any responsibility. |
| 搬动/Moving | 搬动时，若发生脱落或倾倒，是很危险的，请充分注意。<br>When you move it, if it shed off or tit to one side, it is very dangerous, please pay more attention. |
| 安装 Assembly | 请绝对不要在齿轮箱和电机周围放置可燃物，以免发生火灾。<br>Please never put the flammable thing near and motor, for fear of a fire.<br>请不要在电机周围放置物品，影响电机通风、冷却，甚至因异常多热而烫伤或发生火灾。<br>Please do put the things around motor, otherwise it can effect ventilation and cooling, even burning or catching a fire because of too hot.<br>裸手请不要触碰齿轮及电机轴端部、齿轮部的键槽，以免受伤。<br>Please do not touch the gear, the motor shaft and the key slot of the gear with naked hand, or you may be hurt.<br>在食品机械等可能发生漏油的装置中，请在安装部分另加一个能盛油的油杯，防止万一漏油对产品有不良的影响。<br>The device may creating the smoke, such as food machine, please add an oil cup assembly part, to prevent leaking oil which may have a bad effect on the products. |
| 对主机械的连接 Assemble to the main machine | 在旋转部分，请设安全罩等，防止受伤。<br>Please set a safe cover above the revolving part, to prevent being hurt.<br>在与对方机械连接前，请确认旋转方向。若旋转方向不正确，有可能受伤或破坏装置。<br>Before linking to the other machine, please confirm the revolving direction is not right, it may hurt the gear motor or destroy the device. |
| 配线/Wiring | 在测试绝缘电阻时，请不要接触端子，以免触电危险。<br>Please don't get in touch with terminal, when you measure insure insulated resistance, preventing danger of getting an electric shock. |
| 运转 Operation | 请按照接线图或使用说明书实施与电源的连接，以免触电或发生火灾。（无端子箱的，请确实加强连接部分的绝缘）<br>Please link with the electric source according to wire diagram and usage manual, in order to prevent getting an electric shock or catching a fire. (no terminal box, please strengthen the insulation of the connection part surely)<br>对电源电缆和电机引线，请不要过分弯曲、拉伸、夹紧，以免触电危险。<br>Referring to the electrical source cable and the motor wire, please do not bend, stretch, and clip tightly excessively, in order to prevent getting an electric shock.<br>接地端子应牢固接地，以免触电危险。务必使用符合铭牌要求的电源，以免烧毁电机、发生火灾。<br>The terminal box connecting to the ground must be firm, in order to prevent getting an electric shock.<br>Please adopt the electrical source according to the nameplate, to avoid burning the motor and catching a fire. |
| 日常检查保养 The daily check and maintain | 在运转中，绝对不要接近或接触旋转物体（轴等）。有卷入受伤时，请马上切断电源开关，及时处理。<br>When operating, do not get close to or touch the revolving parts (shaft). If something or somebody engulfs or hurts, Please turn off the electrical power switch right and handle at once.<br>停电时，请务必切断电源开关，防止来电后伤人或破坏装置。<br>Please turn off the electrical source switch when electricity stops, in order to prevent hurting the person and damaging the device.<br>请注意：带有热保护的电机，当电机温度异常时会自动切断电源，当电机温度下降到一定值时，电机会自动恢复工作。<br>（注：电机在没有烧坏的情况下，会自动复原）<br>Please note, motor with the thermal protector, when temperature of the motor is unusual, it will turn off the electrical source automatically, when the temperature of the motor fall down to a fixed data, the motor can work automatically.<br>(Note: when the motor is not burned-not, the motor can work automatically) |
| | 在平常时，保持电机在正常的工作环境工作运转。（特殊型号除外）<br>In daily, you should keep the motor operating in the normal work environment. (Except the special model)<br>检查时，请绝对不要接触旋转物体（轴等）。有可能被卷入、受伤。<br>While checking, please do not get close to or touch the revolving parts (shaft). Something or somebody may engulf of hurt. |
| 接受货物时检查 Receiving confirm | 请确认现货是否和订货一样。选择错误的产品，有可能导致电机受损或破坏装置等。<br>Please confirm if it is the right one with the order when receiving. Choosing wrong probably leads to damage of motor of damage the device and etc. |



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# 故障排除 TROUBLE SHOUTING

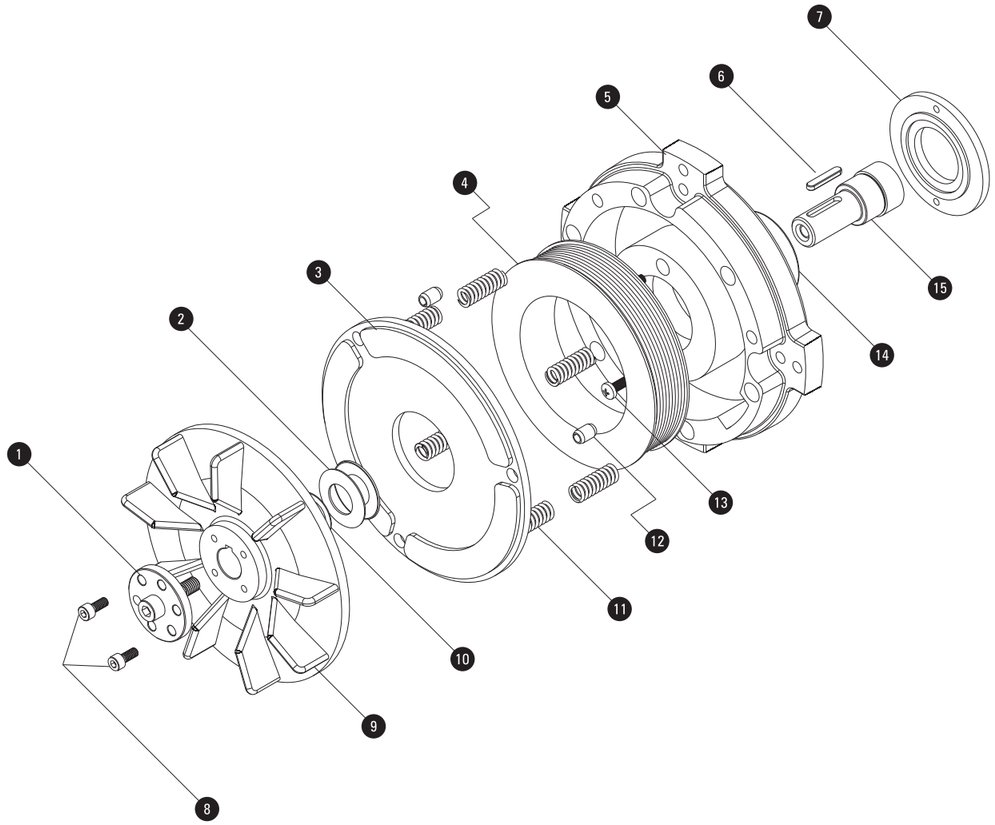
## 直流刹车故障排除 Trouble Shouting For Dc Brake Unit

| 不良原因 Defective Reason | 原因分析 Possible Analysis | 解决方式 Solution Method |
|---|---|---|
| 刹车器不动作 NO ACTION | 未供电源 No power inside brake | 供应电源 Supply power |
| | 摩擦片磨损 Brade disc woras brake | 换新刹车片 Use new brake disc |
| | 间隙过大 Largeclearance | 调整间隙 Adjust clearance |
| | 电源供应器损坏 Power supply damage | 电源供应器换新 Use new power supply |
| | 异物入侵 Dirty inside | 清洁零件 Clean aprts |
| | 使用电压错误 Wrong voltage | 使用正确电压 Correct voltage |
| | 结线脱落 Connect wire lost | 重新接线 Re-connect wire |
| | 刹车片卡死 Brake disc worn out | 清洁零件 Clean aprts |
| | 刹车线圈烧毁 Brake coil burned-out | 刹车线圈换新 Use new brake coil |
| 刹车移动 OVER STOP | 摩擦片磨损 Brake disc worn out | 换新刹车片 Use new brake disc |
| | 间隙过大 Large clearance | 调整间隙 Adjust clearance |
| | 摩擦片沾染油渍 Surface woil | 清洁摩擦片 Clean brake disc |
| | 负载过大 Over loading | 重新设计 Re-design brake unit |
| | 刹车表面歪斜 Disc surface twist | 更换零件 Use new parts |
| | 下降冲量过大 Huge momentum | 机构重新设计 System re-design |
| | 选用机型错误 Select wrong type | 选用正确机型 Re-select unit |
| | 环境温度过高 High temperature | 检查环境温度 Adjust terature |

## 减速机故障排除 Trouble Shouting For Gearmotor

| | 不良原因 Defective Reason | 原因分析 Possible Analysis | 解决方式 Solution Method |
|---|---|---|---|
| 噪音 VOISE | 齿轮敲击声 Knocking | 齿轮表面受伤 Hurt gear surface | 更换受伤齿轮组 Replace gearset |
| | 连续性噪音 Continually | 轴承损坏 Bad bearing | 更换轴承 Replace bearing |
| | 周期性噪音 Periodically | 异物附着齿面 Particle inside | 检查齿轮齿面 GLWeck gear |
| | 嘶嘶声 Neigh | 油量不足 Lack If lubricant | 添加润滑油 Fill with lubricant |
| | 断续性噪音 Intermittently | 润滑油不洁 Dirty lubricant | 更换新润滑油 Replace lubricant |
| 振动 VIBRATING | 固定底座振动 Mounting base movement | 安装平面歪斜 Bad surface mounting | 重新调整固定底座 Re-ak just mounting base |
| | 出力轴振动 Output shaft moving | 轴承损坏 Bearing brolen | 更换轴承 Replace bearing |
| | 内部齿轮振动 Inside gear parts movement | 齿轮受伤 Gear wounded | 更换受伤齿轮 Replace wounded gear |
| | 本体振动 Housing vibrating | 齿轮组安装不良 Bad gear assembly | 重新调整齿轮组 Re-adjust gear set |
| 漏油 LEAKAGE | 油封漏油 Oil seal leakage | 油封硬化 Oil seal too harden | 更换损坏油封 Replace wounded oil seal |
| | 本体漏油 Housing leakage | 本体有砂孔 Housing had sand hole | 更换砂孔本体 Replace sand hole housing |
| | 结合面漏油 Connect surfaxe leakage | O— 型环损坏 O-ring broken broken | 更换损坏 O 型环 Replace wounded O-ring |
| 过热 OVER-HEATING | 油封 Bad oil seal | 油封太紧 Oil sealtoo tight | 更换太紧油封 Replace tighten oil seal |
| | 本体过热 Housing too heat | 过负载 Over load running | 计算负载功率 Re-calculate loading |
| | 缺润滑油 Less lubricant | 油量不足 Lack of lubricant | 加入润滑油 Fill with lubricant |
| | 电机过热 Motor too heat | 电机不良 Defective motor | 更换新电机 Replace new motor |

# 刹车零件分解图
# BRAKE UNIT SECTION DIAGRAM



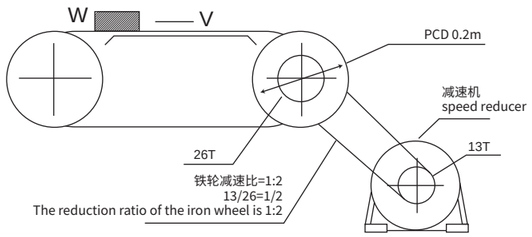

## 明细表 Parts List

| 序号 Item | 名称 Name | 序号 Item | 名称 Name |
|---|---|---|---|
| 1 | 调整螺栓 Gap adjustment bolt | 9 | 散热风叶 Fan |
| 2 | 蝶型弹簧 Disc spring | 10 | 调整垫圈 Adjustment washer |
| 3 | 磨擦来令片 Friction brake disc | 11 | 压力弹簧 Pressure spring |
| 4 | 激磁线圈 Brake coil | 12 | 定位销 Fixed pin |
| 5 | 刹车座 Brake housing | 13 | 固定螺丝 M fixed screw |
| 6 | 平键 Key | 14 | 轴承 Bearing |
| 7 | 轴承固定盖 Fixed bearing cover | 15 | 马达轴 Motor |
| 8 | 固定螺丝 Fixed screw | | |



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## 马达容量的具体计算方法
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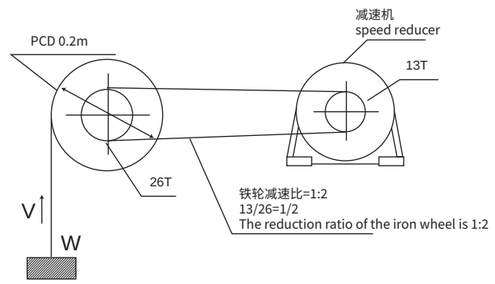

- ◆ 搬运物总重量：W=300kg
- ◆ 搬送速度：V=9.5m/min
- ◆ 与导轨之摩擦系数：μ=0.15
- ◆ 铁轮传动效率：η1=0.95
- ◆ 减速机传动效率：η2=0.9
- ◆ 运转时间：8 小时 / 日
- ◆ 起动次数：1 回 / 分，中冲击
- ◆ 使用电源：三相 220V, 60Hz
- ◆ Total weight of cargo: W=300kg
- ◆ Carrying speed: V=9.5m/min
- ◆ Friction coefficient to guidion rail: μ=0.15
- ◆ GLWain pulley transmission coefficient: η1=0.95
- ◆ Gear reducer transmission corfficient: η2=0.9
- ◆ Operation time: 8 hour/day
- ◆ Start frequency: 1 time/min, medium shock
- ◆ Power: 3 phase 220V, 60Hz

<table>
<tr><th>项目 Item</th><th>选定之注意事项 Notices Calculation Example</th><th>计算范例 Load Condition Notices Example</th></tr>
<tr><td>减速比<br>Ratio</td><td>籍由必要的入力轴转速及出力轴转速来选定减速比<br>1.先求出输送带滚轮转速 ($n_1$)<br>$n_1$ = 搬送速度 / (滚轮直径 × π)<br>2.再求出减速机出力轴转速 ($n_2$)<br>$n_2 = n_1$ × (铁轮齿数 / 减速机齿数)<br>3.以 3Φ，60Hz 之马达计算减速比 (τ)<br>τ = 出力轴转速 / 入力轴转速 (马达转速 n)<br>Reduction Ratio Notices Calculation Example The reduction ratio is based on input/output shaft revolutions.<br>1.Find the revolution of conveyer pulley ($n_1$) first<br>$n_1$ = carrying speed/(pulley D×π)<br>2.Fing the output shaft revolution of gear reducer ($n_2$)<br>$n_2 = n_1$ ×(GLWain pulley speed/gear number or reducer)<br>3.Calculate reduction ratio (π) based on 3Φ, 60Hz motor<br>τ = output shaft revlution/input shaft revolution motor rpm n)</td><td>1.$n_1$=V/(D × π)=9.5/(0.2 × 3.14)=15 r/min(RPM)<br>2.$n_2$=$n_1$ × (26/13)=15 × 2/1=30 r/min(RPM)<br>3.$n_2$/n=30/1800=1/60<br>(马达转速，motor RPM, input representative)</td></tr>
<tr><td>扭力<br>Torque</td><td>决定减速比后，由工作条件换算其扭矩<br>1.先算出输送带滚轮之扭矩 (T1) T1=(μ × 荷重 × 滚轮半径 )/η1<br>2.再换算成减速机出轴所需扭矩 (T2) T2=(T1 × 铁轮减速比 )/η2<br>Torque Notices Calculation Example<br>After reduction ratio is decided, calculate the torque by the condition of the maGLWine used.<br>1.Find the torque of conveyer pulley (T1) T1=(μ × load × pulley radius)/η1<br>2.Find the torque needed from the output shaft of reducer (T2)<br>T2=(T1 × reduction ratio of GLWain pulley)/η2</td><td>1.T1=μ×W(D/2)/η1<br>=0.15×300×(0.2/2)/0.95=4.8kgf - m<br>2.T2=(T1×1/2)/η2<br>=(4.8×1/2)/0.9=2.67kgf - m</td></tr>
<tr><td>运转条件<br>Load conditions</td><td><table><tr><th rowspan="2">原动机<br>Prime Morer</th><th rowspan="2">传动机负荷等级<br>Driven maGLWine liad classitication</th><th colspan="4">每日使用时间<br>Duration of service perday</th></tr><tr><th>0.50hr</th><th>2hrs</th><th>8-10hr</th><th>10-24hr</th></tr><tr><td rowspan="3">电动机<br>Electric Morer</td><td>均一负荷 Uniform</td><td>0.80</td><td>0.90</td><td>1.00</td><td>1.25</td></tr><tr><td>中冲击 Medium Shock</td><td>0.90</td><td>1.00</td><td>1.25</td><td>1.50</td></tr><tr><td>重冲击 Heavy Shock</td><td>1.00</td><td>1.25</td><td>1.50</td><td>1.75</td></tr><tr><td colspan="6">补正扭力 =减速机出力转扭力x系数k<br>Corective torque=reducer shaft torque x coefficient</td></tr></table></td><td>T3=T2×K<br>=2.67×1.25=3.34kgf - m</td></tr>
<tr><td>马力<br>Horse Power</td><td>1.最后换算成马力 (HP) HP=(补正扭力 × 出力轴转数)/716.2<br>2.Find horse power(HP)<br>HP=(corrective torque × revolution of output shaft)/716.2</td><td>HP=(T × N)/716.2<br>=(3.34 × 30)/716.2=0.14HP</td></tr>
<tr><td>型号选定<br>Model Selected</td><td>根据本目录之型号速比对照表 1/4HP、减速比 1/60。GLW22 - 200 - 60S.<br>According to the model - reduction ration reference table, model GLW22, 1/4HP, reduction ration 1/60 are selected.</td><td></td></tr>
</table>



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- ◆ 搬送速度：V=9.5m/min
- ◆ 铁轮传动效率：η1=1
- ◆ 减速机传动效率：η2=0.9
- ◆ 运转时间：2 小时 / 日
- ◆ 起动次数：1 回 / 分，中冲击
- ◆ 使用电源：三相 220V, 60Hz
- ◆ Total wright of cargo: W=300kg
- ◆ Carrying speed: V=9.5m/min
- ◆ GLWain pulley transmission coefficient: η1=0.95
- ◆ Geaar reducer transmission corfficient: η2=1
- ◆ Operation time: 2 hour/day
- ◆ Start frequency: 1 time/min, medium shock
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<tr><td>负荷条件<br>Load conditions</td><td>1.根据运转条件算出补正扭力 (T3) T3=T2× 运转条件 (系数 K)<br>2.Find corrective torque (T3) according to operation condition<br>T3=T2×operation condition(coeffcient K)</td><td>T3=T2×K<br>=16.7×1=16.7kgf - m</td></tr>
<tr><td>马力<br>Horse Power</td><td>1.最后换算成马力 (HP) HP=(T × N)/716.2<br>1.Find horse power (HP) HP=(T × N)/716.2</td><td>HP=(T×N)/716.2<br>=(16.7×30)/716.2=0.69<(HP)</td></tr>
<tr><td>型号选定<br>Model Selected</td><td colspan="2">根据本目录之型号速比对照表 HP、减速比 1/60，0.75kW 适用。GLW32 - 750 - 60SB。<br>According to the model - reduction ratio reference table, model GLW32, 1HP, reduction ratio 1/60 are selected.</td></tr>
</table>

## 减速机用词概要
## TERMINOLOGY FOR THE GEAR REDUCERS

1.减速机选择方法

减速机为配合马达机型及瓦特数依负荷状况做下列之分类：GN型→60、70、80、90 型减速箱，(配合 4W~120W电机使用，使用滚珠轴承)。GU 型→100 型加强型减速箱，(配合70W~200W电机使用，使用滚珠轴承)。

2.减速机配合马达之出力转矩计算方式：

转矩……TG = TM×i×η

TG: 减速机之转矩 (kg - cm)

TM: 马达之转矩 (kg - cm)

i: 减速机之减速比

η: 减速机之传动效率

3.最大容许转矩（下图）

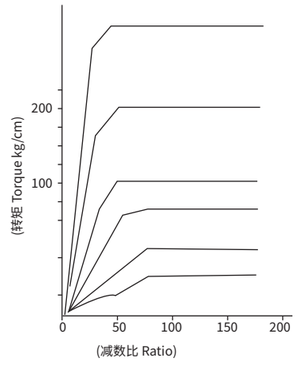
减速机之出力转矩因减速比大而增大，但因受了齿轮之材质及其他条件之影响，限制实际所能承受之负荷转矩，而减速机之最大容许转矩之大小是视减速机种类与减速机之出力转矩。

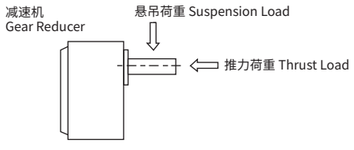
TG = TM×i×η=1.9×100×0.66=125.4kg - cm

如右图所示 A4GN100K 最大容许转矩 80Kg - cm，但计算所得之减速机出力转矩为 125kg - cm，但是实际上减速机所能承受之负荷不可超 80kg - cm。

4.容许悬吊荷重及容许推力荷重（下图）

减速机之出力轴使用在链条，齿轮或皮带等传动机械上，在一定出力轴处，增加悬吊荷重（同轴呈直角重）轴承的寿命会受到悬吊荷重与出力轴间作用关系，产生直接影响。




1.Selections of the speed reduction gearing (meGLWanism)

To coordinate between the type of motor and wattage of power used, the following classification is made according to the loading conditions: Model GN → 60, 70, 80, 90 gear box, (in cooperation with 4W~120W motor, using ball bearings).

Model GU → 100 Enhanced gear box, (in cooperation with 70W~200W motor, using ball bearings).

2.Calculations of a speed reduction gear in relating to the torque of the motor output power.

Torque: TG=TM×i×η

TG=torque of the speed reduction gearing (Kg - cm)

TM: Torque fo a motor (Kg - cm)

i=Reduction ratio of the speed reduction gearing

η=transmission efficiency of the speed reduction gearing

3.Maximum allowable torque (Figure to the below)

The torque for a motor output power can be increased in accordance with the bigger reduction ratio of the speed reduction gearing.however,the practical limitation of the loading torque shall be effected by the material of the gear and some other conditions.

The Maximum allowable torque for a speed reduction gearing is also depending on the kiod of speed reduction gearing and the output power torque of the speed reduction gearing.

TG=TM×i×η=1.9×100×0.66=125.4kg - cm

The maximum allowable torque 80Kg - cm for the A4GN 100K is shownin the figure to the right, in comparing to the output power torque of the speed reduction gearing, 125Kg - cm, by calculation, In practical, however, under no way the loading of a speed reduction gearing exceed 80Kg - cm.

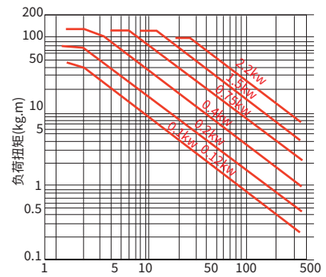
4.Allowable suspension load and allowable thrust load (see figure to the below):

Transmission meGLWanism suGLW as GLWain, gears, or belt can be used as an output shaft for the speed reduction gearing. Suppose the suspension load is increased (vertically to the shaft) at the output shaft whiGLW should be effected directly against the applicable life regarding to relations between suspension load and thrust load.





## 减速机之选用与计算技术资料
## TEGLWNICAL INFORMATION ON SELECTION AND CALCULATION OF SPEED REDUCERS




1、机种选用: Selection of MaGLWine Type:

(1) 依安装方式，使用条件来决定采用何种机种。

(2) 依输出功能及转速来决定。

(3) 依据机械的负荷扭矩来决定，利用运转条件之安全系数 (表二) 来补正。

(4) 依转速及负荷扭矩 (图一) 修正之容量来决定。

(5) 依GD2(惯性) 与 O.H.L (超载输出能力) 相互计算来决定。

(1) Determine the type of maGLWine to be adopted based on the installation method and operating conditions.
(2) Determine according to the output power and rotational speed.
(3) Determine based on the load torque of the maGLWinery, and make corrections using the safety factor for operating conditions (Table 2).
(4) Determine based on the corrected capacity considering the rotational speed and load torque (Figure 1).
(5) Determine through mutual calculation of GD2 (inertia) and O.H.L (Overload Output Capacity).

2、安全系数

本公司之减速机是依平均负荷(10 小时/日)运转条件设计，依上述之条件使用时，请依安全系数(表二)修正负荷扭矩。

The reducers of our company are designed according to the operating conditions of average load (10 hours/day). When used under the above - mentioned conditions, please correct the load torque according to the safety factor (Table 2).

| 负荷状态 Load Condition | 安全系数Safety Factor ------Sf | | | 用途 application |
|---|---|---|---|---|
| | 3H 以下/日 Less than 3 hours per day | 3-10H /日 3 - 10 hours per day | 10H以上/日 Less than 10 hours per day | |
| 平均负荷 Average Load | 1.0 | 1.0 | 1.2 | 输送带，送料机，压出机，水处理机 Conveyor belt, feeder, extruder, water treatment maGLWine |
| 重负荷 Heavy Load | 1.0 | 1.2 | 1.4 | 车用机械，制纸机械，食品机械，制糖机械，搅拌机，升降机 Vehicle - used maGLWinery, paper - making maGLWinery, food maGLWinery, sugar - making maGLWinery, mixer, elevator |
| 超重负荷 Over - heavy Load | 1.2 | 1.35 | 1.6 | 金属加工机械，起重机，展磨机，船用机械，碎石机 Metal processing maGLWinery, crane, grinding maGLWine, marine maGLWinery, crusher |

3、惯性 ($GD^2$) Inertia ($GD^2$)

外径大之物体连接运转，间歇启动（或装有刹车装置停止时）瞬间产生扭矩，是减速机最大的负荷，依对方机械的惯性，连接方式及启动的频率，选择容许惯性值。

When an object with a large outer diameter is connected for operation, and there is intermittent starting (or when stopped with a braking device), torque is generated instantaneously, whiGLW is the maximum load on the reducer. Select the allowable inertia value according to the inertia of the counterpart maGLWinery, the connection method, and the starting frequency.

容许 GD(马达轴入力端换算值)(表三)

Allowable GD (Converted Value at the Motor Shaft Input End) (Table 3)

| 三相 three - phase | 单相 single-phase | 容许 GD(kg.m²) |
|---|---|---|
| 0.1KW | 0.1KW | 0.0031 |
| 0.2KW | 0.2KW | 0.0035 |
| 0.4KW | 0.4KW | 0.0048 |
| 0.75KW | - | 0.0101 |
| 1.5KW | - | 0.0212 |
| 2.2KW | - | 0.0262 |
| 3.7KW | - | 0.0691 |

依据运转条件容许$GD^2$修正系数 (表四)

Allowable GD 2 Correction Coefficient According to Operating Conditions (Table 4)

| 连结方式 Connection Method | 使用频率 Frequency of Use | 修正系数 correction coefficient |
|---|---|---|
| 直接连结 Direct Connection | 70 次/日以下 70 times per day or less | 1.0 |
| | 70 次/日以下 70 times per day or less | 1.5 |
| 方式不拘 Any Method | 70 次/日以下 70 times per day or less | 1.5 |
| | 70 次/日以下 70 times per day or less | 2.0 |

注：1、减速机输入转速在 1800R.P.M 以上使用时，以上表乘以输入为容许值。
例：输入转速 3600R.P.M，$GD^2$ =原值×(1800/3600)² =1/4原值
2、马达输入轴$GD^2$ =输出轴之减速 例：减速比为 1:20 时，其值为 1/400

Note: 1. When the input speed of the reducer is above 1800 R.P.M for use, multiply the values in the above table by (1800/InputR.P.M) ² to get the allowable value. Example: For an input speed of 3600 R.P.M, $GD^2$ =Originalvalue×(1800/3600) ² = 1/4oftheoriginalvalue
2. The $GD^2$ of the motor input shaft = $GD^2$ oftheoutputshaft×(Reductionratio) ². Example: When the reduction ratio is 1:20, its value is 1/400

4、超载输出能力 (0.H.L) Overload Output Capacity (O.H.L)

超载输出能力意即在心轴上悬垂负载作用之意，减速机轴与对主机械运作，假如使用键条、输送带，必须检讨超出负载的必要。

The overload output capacity refers to the effect of a suspended load acting on the spindle. For the operation of the reducer shaft and the main maGLWinery, if GLWains or conveyor belts are used, it is necessary to examine the need for exceeding the load.

O.H.L.=T×K1×K2/R (kg.m)

T：减速机轴连接扭矩 (kg.m) T: The connection torque of the reducer shaft (kg·m)

R：减速机轴被安装之链条、滑轮、齿轮等螺距圆半径 (m) R: The pitGLW circle radius (m) of the key, pulley, gear, etc., installed on the reducer shaft

K1：连接方式之系数（表五） K1: The coefficient of the connection method (Table 5)

K2：负载位置之系数（表六） K2: The coefficient of the load position (Table 6)

上述所求之 O.H.L 性能表示负载之容许量，请依小于 O.H.L. 之容许作业

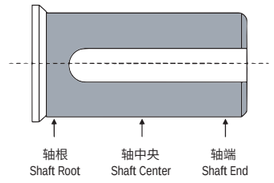
The O.H.L performance obtained above indicates the allowable load capacity. Please operate within an allowable range that is less than the O.H.L.

系数 K1 Coefficient K1　　表五 Table 5

| 连接方法 Connection Method | K1 |
|---|---|
| 链条、齿轮皮带 GLWain, Gear Belt | 1.00 |
| 齿轮 Gear | 1.25 |
| V 型输送带 V - type Conveyor Belt | 1.50 |
| 平面型输送带 Flat - type Conveyor Belt | 2.50 |

系数 K2 Coefficient K2　　表六 Table 6

| 位置 Position | K2 |
|---|---|
| 轴根 Shaft Root | 0.75 |
| 轴中央 Shaft Center | 1.00 |
| 轴端 Shaft End | 1.50 |



## 三相电压全负载电流值
## Three-phase voltage full load current value

| 输出功率 Capacity | 50Hz-4P | | | 60Hz-4P | | |
|---|---|---|---|---|---|---|
| | 220V | 380V | RPM | 220V | 380V | RPM |
| 100W | 0.60 | 0.40 | 1400 | 0.60 | 0.40 | 1700 |
| 200W | 1.15 | 0.67 | 1400 | 1.10 | 0.63 | 1700 |
| 400W | 2.13 | 1.24 | 1400 | 1.90 | 1.10 | 1700 |
| 750W | 3.66 | 2.13 | 1410 | 3.40 | 1.96 | 1710 |
| 1500W | 6.58 | 3.82 | 1410 | 6.10 | 3.53 | 1710 |
| 2200W | 8.94 | 5.18 | 1430 | 8.70 | 5.03 | 1725 |
| 3700W | 13.85 | 8.03 | 1440 | 13.5 | 7.81 | 1725 |
| 5500W | 20.2 | 11.6 | 1450 | 19.5 | 10.2 | 1725 |

## 单相电压全负载电流值
## 1-Phase/4-Poles Full Load Ampere

| 输出功率 Capacity | 50Hz-4P | | | 60Hz-4P | | |
|---|---|---|---|---|---|---|
| | 110V | 220V | PRM | 110V | 220V | PRM |
| 100W | 2.2 | 1.1 | 1400 | 2.0 | 1.0 | 1700 |
| 200W | 4.0 | 2.0 | 1400 | 3.6 | 1.8 | 1700 |
| 400W | 7.6 | 3.8 | 1420 | 6.6 | 3.3 | 1730 |

## 单相马达电容器规格
## 1-Phase Motor Capacitor

| 输出马力 Capacity | 运转电容(文电型) Running capacitance (text-type) | 起动电容(离心开关型) Starting capacitance (centrifugal switGLW type | 运转电容+起动电容(离心开关型 Running + starting capacitance (centrifugal switGLW type) |
|---|---|---|---|
| 100W | 10μf - 350V | - | - |
| 200W | 16μf - 350V | 125μf - 160V | - |
| 400W | 30μf - 350V | 200μf - 160V | 30μf - 350V+200μf - 160V |



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## 出力轴轴径对照表
## OUTPUT SHAFT DIAMETER TABLE

标准型 (Normal Duty Type)

| 减速比 Ratio | 马力 Capacity | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1/8HP(100W) | 1/4HP(200W) | 1/2HP(400W) | 1HP(750W) | 2HP(1500W) | 3HP(2200W) | 5HP(3700W) |
| 3 | 18 | 18 | 22 | 28 | 32 | 40 | 40 |
| 5 | 18 | 18 | 22 | 28 | 32 | 40 | 40 |
| 10 | 18 | 18 | 22 | 28 | 32 | 40 | 40 |
| 15 | 18 | 22 | 28 | 28 | 32 | 40 | 50 |
| 20 | 18 | 22 | 28 | 28 | 32 | 40 | 50 |
| 25 | 18 | 22 | 28 | 28 | 32 | 40 | 50 |
| 30 | 18 | 22 | 28 | 32 | 32 | 40 | 50 |
| 40 | 18 | 22 | 28 | 32 | 40 | 40 | 50 |
| 45 | 18 | 22 | 28 | 32 | 40 | 40 | 50 |
| 50 | 18 | 22 | 28 | 32 | 40 | 50 | 50 |
| 60 | 18 | 22 | 28 | 32 | 40 | 50 | 50 |
| 70 | 22 | 22 | 28 | 32 | 40 | 50 | |
| 80 | 22 | 22 | 28 | 32 | 40 | 50 | |
| 90 | 22 | 22 | 28 | 32 | 40 | 50 | |
| 100 | 22 | 28 | 32 | 32 | 40 | 50 | |
| 120 | 22 | 28 | 32 | 32 | 50 | 50 | |
| 140 | 22 | 28 | 32 | 40 | 50 | | |
| 150 | 22 | 28 | 32 | 40 | 50 | | |
| 160 | 22 | 28 | 32 | 40 | 50 | | |
| 180 | 22 | 28 | 32 | 40 | 50 | | |
| 200 | 22 | 28 | 32 | 40 | | | |
| 250 - 1800 | 28 | 32 | 40 | 50 | | | |

轻负载缩框型(Light Duty Type)

| 减速比 Ratio | 马力 Capacity | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1/8HP(100W) | 1/4HP(200W) | 1/2HP(400W) | 1HP(750W) | 2HP(1500W) | 3HP(2200W) | 5HP(3700W) |
| 3 | | | 18 | 28 | 32 | 40 | 40 |
| 5 | | | 18 | 28 | 32 | 40 | 40 |
| 10 | | | 18 | 28 | 32 | 40 | 40 |
| 15 | | 18 | 22 | 28 | 32 | 40 | 50 |
| 20 | | 18 | 22 | 28 | 32 | 40 | 50 |
| 25 | | 18 | 22 | 28 | 32 | 40 | 50 |
| 30 | | 18 | 22 | 32 | 32 | 40 | 50 |
| 40 | | 18 | 22 | 32 | 40 | 40 | 50 |
| 45 | | 18 | 22 | 32 | 40 | 40 | 50 |
| 50 | | 18 | 22 | 32 | 40 | 50 | 50 |
| 60 | | 18 | 22 | 32 | 40 | 50 | 50 |
| 70 | 18 | 18 | 22 | 32 | 40 | 50 | |
| 80 | 18 | 22 | 22 | 32 | 40 | 50 | |
| 90 | 18 | 22 | 22 | 32 | 40 | 50 | |
| 100 | 18 | 22 | 28 | 32 | 40 | 50 | |
| 120 | 18 | 22 | 28 | 32 | 50 | 50 | |
| 140 | 18 | 28 | 28 | 40 | 50 | | |
| 150 | 18 | 28 | 28 | 40 | 50 | | |
| 160 | 18 | 28 | 28 | 40 | 50 | | |
| 180 | 18 | 28 | 28 | 40 | 50 | | |
| 200 | 18 | 28 | 28 | 40 | | | |
| 250 - 1800 | 22 | 28 | 32 | 50 | | | |

1、缩框机型为不正当设计使用，如非必要请勿选用。
2、马达部分提供一年保固。
1、Light duty type are not available for standard application design, it only suitable for special project design.
2、Provide one year guarantee for motor only.

## 输出扭矩表
## OUTPUT TORQUE

标准型 (Normal Duty Type)

kg·m

| 减速比 Ratio | 输出转速 Output R.P.M. | | 输出扭矩 Output Torque | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0.1KW | | 0.2KW | | 0.4KW | | 0.75KW | | 1.5KW | | 2.2KW | | 3.7KW | |
| | Hz | | | | | | | | | | | | | | | |
| | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 |
| 3 | 500 | 600 | 0.19 | 0.16 | 0.37 | 0.31 | 0.70 | 0.60 | 1.30 | 1.10 | 2.60 | 2.20 | 3.80 | 3.20 | 6.00 | 5.50 |
| 5 | 300 | 360 | 0.31 | 0.26 | 0.62 | 0.52 | 1.20 | 1.00 | 2.20 | 1.90 | 4.50 | 3.80 | 6.72 | 5.60 | 11.0 | 10.0 |
| 10 | 150 | 180 | 0.62 | 0.52 | 1.24 | 1.04 | 2.40 | 2.00 | 4.50 | 3.80 | 9.10 | 7.60 | 13.7 | 11.2 | 22.0 | 20.0 |
| 15 | 100 | 120 | 0.91 | 0.76 | 1.80 | 1.50 | 3.60 | 3.00 | 6.80 | 5.70 | 13.5 | 11.3 | 20.1 | 16.8 | 32.6 | 29.8 |
| 20 | 75 | 90 | 1.20 | 1.00 | 2.40 | 2.00 | 4.80 | 4.00 | 9.00 | 7.50 | 18.1 | 15.1 | 26.8 | 22.4 | 43.6 | 36.0 |
| 25 | 60 | 72 | 1.40 | 1.20 | 3.00 | 2.50 | 6.00 | 5.00 | 11.2 | 9.40 | 22.6 | 18.9 | 33.6 | 28.0 | 53.9 | 49.53 |
| 30 | 50 | 60 | 1.80 | 1.50 | 3.60 | 3.00 | 7.20 | 6.00 | 13.5 | 11.3 | 27.1 | 22.6 | 40.3 | 33.6 | 64.7 | 58.8 |
| 40 | 37 | 45 | 2.20 | 1.90 | 4.60 | 3.90 | 9.30 | 7.80 | 17.5 | 14.6 | 34.9 | 29.1 | 52.0 | 43.4 | 86.3 | 78.4 |
| 45 | 33 | 40 | 2.70 | 2.20 | 5.40 | 4.40 | 10.9 | 9.10 | 20.6 | 17.0 | 41.1 | 34.0 | 59.8 | 49.6 | 98.5 | 81.7 |
| 50 | 30 | 36 | 2.80 | 2.40 | 5.70 | 4.80 | 11.6 | 9.70 | 21.9 | 18.3 | 43.6 | 36.4 | 65.1 | 54.3 | 107 | 97.0 |
| 60 | 25 | 30 | 3.40 | 2.90 | 6.90 | 5.80 | 13.9 | 11.6 | 26.2 | 21.9 | 52.4 | 43.7 | 78.1 | 65.1 | 127 | 115 |
| 70 | 21 | 25 | 4.30 | 3.60 | 8.00 | 5.80 | 16.2 | 13.5 | 31.5 | 26.3 | 62.4 | 52.0 | 92.5 | 77.1 | | |
| 80 | 19 | 23 | 4.80 | 4.00 | 9.20 | 7.70 | 18.4 | 15.4 | 35.5 | 29.6 | 70.8 | 59.0 | 105 | 87.5 | | |
| 90 | 17 | 20 | 5.20 | 4.40 | 10.30 | 8.60 | 20.7 | 17.3 | 39.3 | 32.8 | 77.1 | 64.3 | 113 | 94.3 | | |
| 100 | 15 | 18 | 5.80 | 4.90 | 11.5 | 9.60 | 23.0 | 19.2 | 43.2 | 36.0 | 83.7 | 69.8 | 126 | 105 | | |
| 120 | 12 | 15 | 6.90 | 5.80 | 13.8 | 11.5 | 27.7 | 23.1 | 51.8 | 43.2 | 101 | 83.7 | | | | |
| 140 | 11 | 13 | 8.00 | 6.70 | 16.0 | 13.4 | 32.0 | 26.7 | 59.7 | 49.8 | 116 | 96.8 | | | | |
| 160 | 9 | 11 | 9.10 | 7.60 | 18.3 | 15.3 | 36.3 | 30.3 | 68.0 | 56.7 | 132 | 110 | | | | |
| 180 | 8 | 10 | 10.3 | 8.60 | 20.7 | 17.3 | 40.8 | 34.0 | 76.8 | 64.0 | 148 | 123 | | | | |
| 200 | 7 | 9 | 11.6 | 9.70 | 22.9 | 19.1 | 43.2 | 36.0 | 82.8 | 69.0 | | | | | | |

1kg·m = 9.8N·m (牛顿·米)



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## 输出轴悬垂荷重
## OVERHUNG LOAD

标准型 (Normal Duty Type)

kg·m

| 减速比 Ratio | 输出转速 Output R.P.M. | | 输出扭矩 Output Torque | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0.1KW | | 0.2KW | | 0.4KW | | 0.75KW | | 1.5KW | | 2.2KW | | 3.7KW | |
| | Hz | | | | | | | | | | | | | | | |
| | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 |
| 3 | 500 | 600 | 30 | 25 | 30 | 25 | 54 | 45 | 60 | 50 | 145 | 130 | 165 | 150 | 200 | 180 |
| 5 | 300 | 360 | 36 | 30 | 36 | 30 | 78 | 70 | 85 | 75 | 165 | 150 | 210 | 180 | 270 | 225 |
| 10 | 150 | 180 | 70 | 60 | 70 | 60 | 150 | 130 | 180 | 180 | 280 | 250 | 210 | 180 | 270 | 225 |
| 15 | 100 | 120 | 110 | 90 | 110 | 100 | 175 | 160 | 165 | 160 | 355 | 348 | 430 | 360 | 570 | 550 |
| 20 | 75 | 90 | 150 | 125 | 135 | 125 | 190 | 170 | 175 | 170 | 369 | 365 | 490 | 450 | 780 | 750 |
| 25 | 60 | 72 | 155 | 140 | 150 | 140 | 210 | 180 | 185 | 180 | 450 | 430 | 540 | 500 | 850 | 830 |
| 30 | 50 | 60 | 160 | 150 | 170 | 165 | 235 | 220 | 415 | 400 | 480 | 450 | 650 | 630 | 1100 | 1050 |
| 40 | 38 | 45 | 160 | 160 | 180 | 180 | 270 | 260 | 430 | 420 | 580 | 550 | 690 | 650 | 1200 | 1100 |
| 45 | 33 | 40 | 170 | 170 | 180 | 180 | 335 | 328 | 440 | 430 | 590 | 570 | 710 | 670 | 1280 | 1200 |
| 50 | 30 | 36 | 170 | 170 | 180 | 180 | 350 | 335 | 450 | 440 | 600 | 580 | 820 | 780 | 1300 | 1250 |
| 60 | 25 | 30 | 180 | 180 | 180 | 180 | 350 | 350 | 450 | 450 | 630 | 610 | 850 | 820 | 1400 | 1350 |
| 70 | 21 | 25 | 180 | 180 | 180 | 180 | 350 | 350 | 460 | 460 | 670 | 650 | 900 | 900 | 1400 | 1400 |
| 80 | 18 | 22 | 180 | 180 | 180 | 180 | 350 | 350 | 460 | 460 | 680 | 680 | 1100 | 1100 | | |
| 90 | 16 | 20 | 180 | 180 | 180 | 180 | 350 | 350 | 500 | 500 | 850 | 850 | 1100 | 1100 | | |
| 100 | 15 | 18 | 200 | 200 | 250 | 250 | 380 | 380 | 590 | 590 | 900 | 900 | 1200 | 1200 | | |
| 120 | 12 | 15 | 200 | 200 | 320 | 320 | 390 | 390 | 640 | 640 | 920 | 920 | 1200 | 1200 | | |
| 140 | 11 | 13 | 200 | 200 | 320 | 320 | 400 | 400 | 679 | 679 | 920 | 920 | | | | |
| 150 | 10 | 12 | 220 | 220 | 330 | 330 | 420 | 420 | 679 | 679 | 950 | 950 | | | | |
| 160 | 9 | 11 | 220 | 220 | 330 | 330 | 420 | 420 | 700 | 700 | 950 | 950 | | | | |
| 180 | 8 | 10 | 240 | 240 | 350 | 350 | 430 | 430 | 720 | 720 | 980 | 980 | | | | |
| 200 | 7 | 9 | 240 | 240 | 350 | 350 | 430 | 430 | 720 | 720 | | | | | | |
| 1/250-1/1800 | | | 300 | 300 | 480 | 480 | 720 | 720 | 1400 | 1400 | | | | | | |

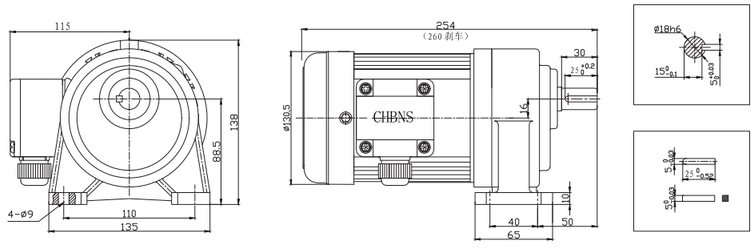
# 0.1KW

**GLW 型卧式三相铝壳(刹车)马达减速机**
**GLW Horizontal Type With Aluminum housing**
**3 Phase (Brake) Gear Motor**

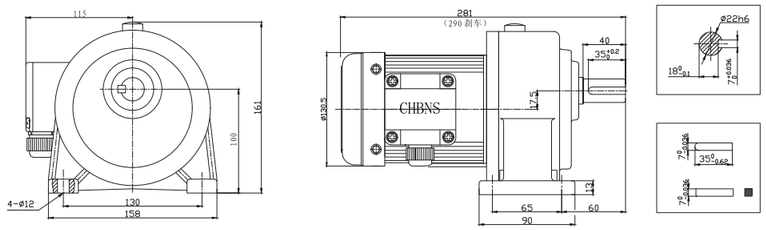


## GLW18-100W-3~60

**轻负载缩框型 GLW-18-100-70~170**
Light-load Frame-shrunk Type




## GLW22-100W-60~200




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.





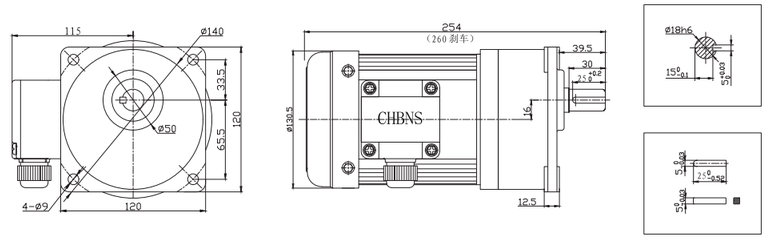
# 0.1KW

**GLF 型立式三相铝壳(刹车)马达减速机**
**GLF Vertical Type With Aluminum housing**
**3 Phase (Brake) Gear Motor**

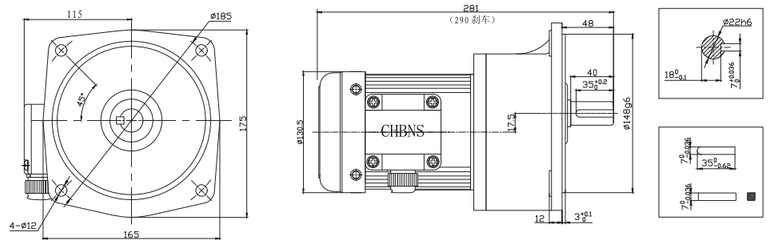


## GLF18-100W-3~60

**轻负载缩框型 GLW-18-100-70~170**
Light-load Frame-shrunk Type




## GLF22-100W-60~200




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

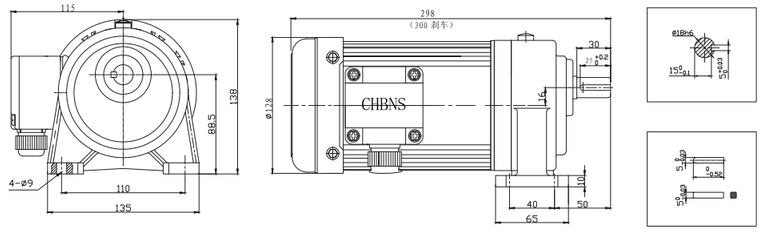
# 0.2KW

**GLW 型卧式三相铝壳(刹车)马达减速机**
**GLW Horizontal Type With Aluminum housing**
**3 Phase (Brake) Gear Motor**



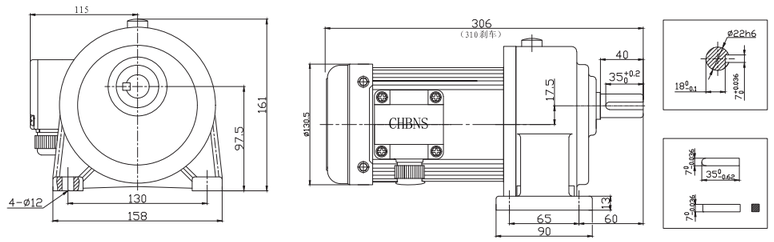
## GLW-18-200-3~10

**轻负载缩框型 GLW-18-200-15~105**
Light-load Frame-shrunk Type

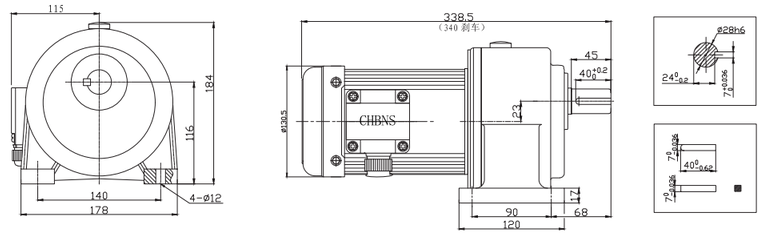



## GLW-22-200-15~90

**轻负载缩框型 GLW-22-200-100~200**
Light-load Frame-shrunk Type




## GLW-28-200-100~200




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.



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G系列交流减速电机 G Series AC Gear Motor

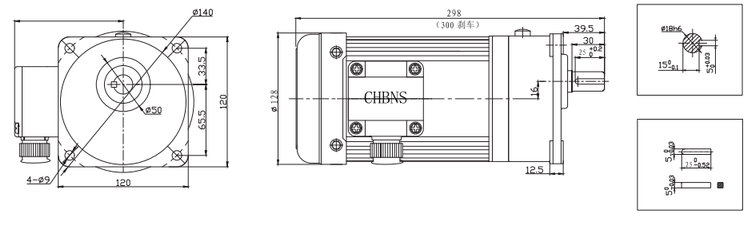
# 0.2KW

**GLF 型立式三相铝壳(刹车)马达减速机**
**GLF Vertical Type With Aluminum housing**
**3 Phase (Brake) Gear Motor”**



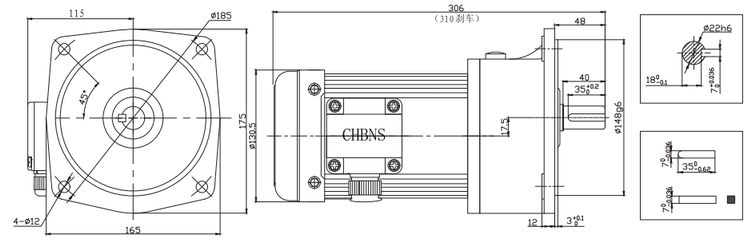
## GLF-18-200-3~10

**轻负载缩框型 GLF-18-200-15~105**
Light-load Frame-shrunk Type

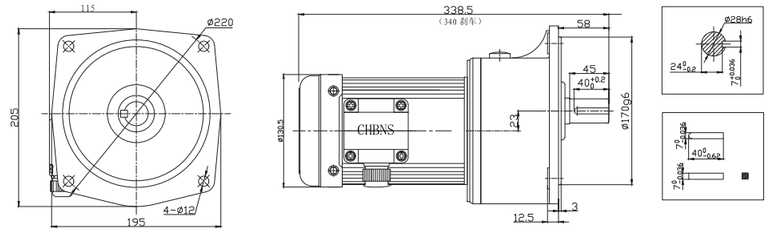



## GLF-22-200-15~90

**轻负载缩框型 GLF-22-200-100~200**
Light-load Frame-shrunk Type




## GLF-28-200-100~200




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

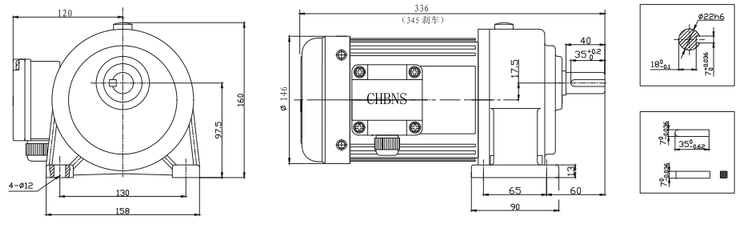
# 0.4KW

**GLW 型卧式三相铝壳(刹车)马达减速机**
**GLW Horizontal Type With Aluminum housing**
**3 Phase (Brake) Gear Motor**



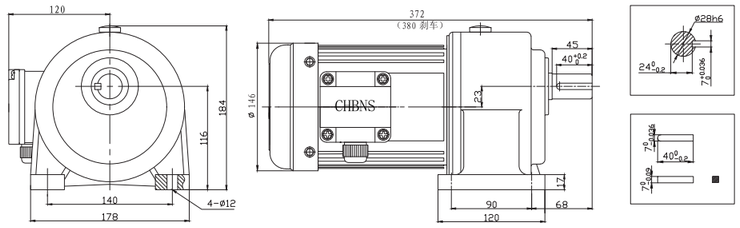
## GLW-22-400-3~10

**轻负载缩框型 GLW-22-400-15~105**
Light-load Frame-shrunk Type

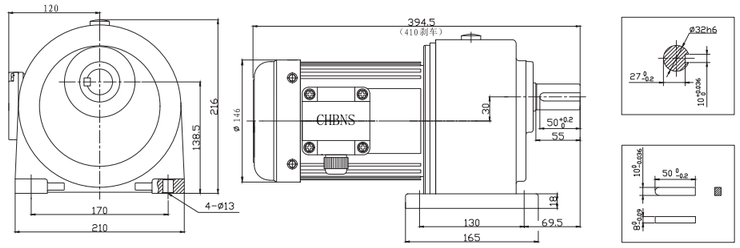



## GLW-28-400-15~90

**轻负载缩框型 GLW-28-400-100~200**
Light-load Frame-shrunk Type




## GLW-32-400-100~200




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
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G系列交流减速电机 G Series AC Gear Motor

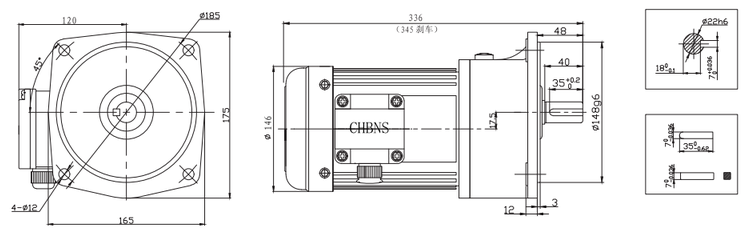
# 0.4KW

**GLF 型立式三相铝壳(刹车)马达减速机**
**GLF Vertical Type With Aluminum housing**
**3 Phase (Brake) Gear Motor”**



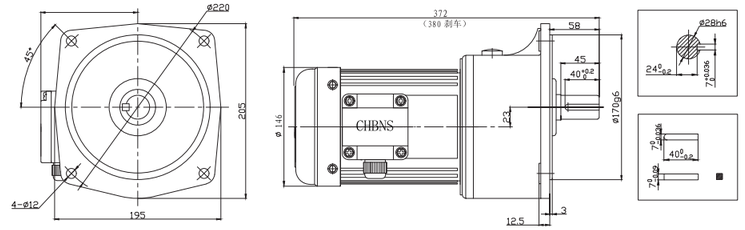
## GLF-22-400-3~10

**轻负载缩框型 GLF-22-400-15~105**
Light-load Frame-shrunk Type

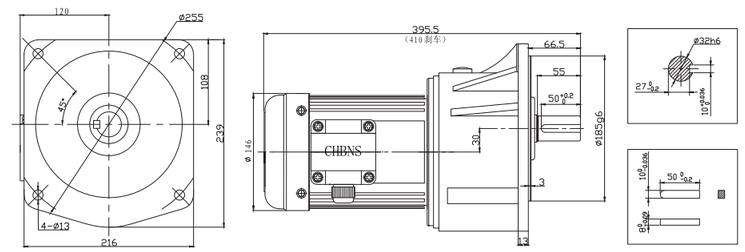



## GLF-28-400-15~90

**轻负载缩框型 GLF-28-400-100~200**
Light-load Frame-shrunk Type




## GLF-32-400-100~200




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

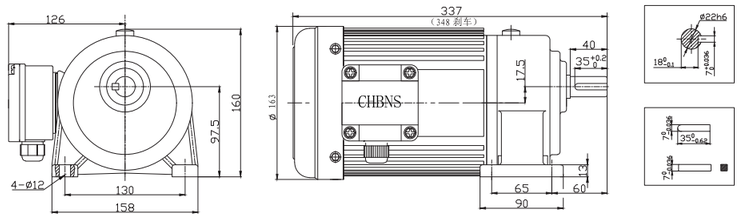
# 0.75KW

**GLW 型卧式三相铝壳(刹车)马达减速机**
**GLW Horizontal Type With Aluminum housing**
**3 Phase (Brake) Gear Motor**



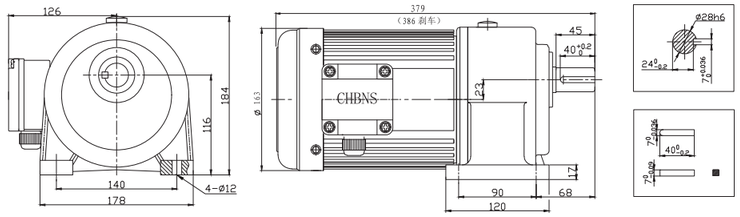
## GLW-22-750-3-30

**轻负载缩框型**
Light-load Frame-shrunk Type



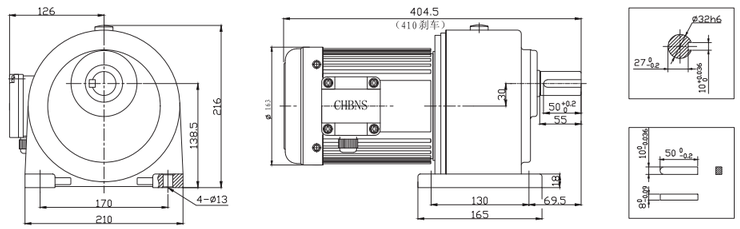

## GLW-28-750-3~25

**轻负载缩框型 GLW-28-750-30~120**
Light-load Frame-shrunk Type

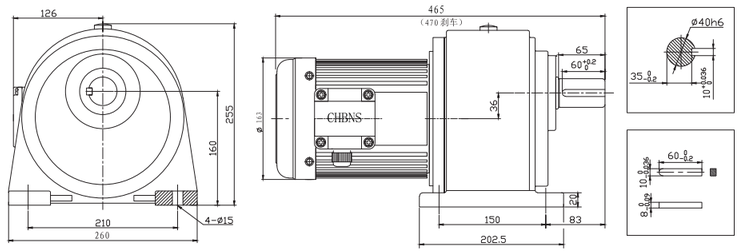



## GLW-32-750-30~120

**轻负载缩框型 GLW-32-750-130~200**
Light-load Frame-shrunk Type




## GLW-40-750-130~200




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.



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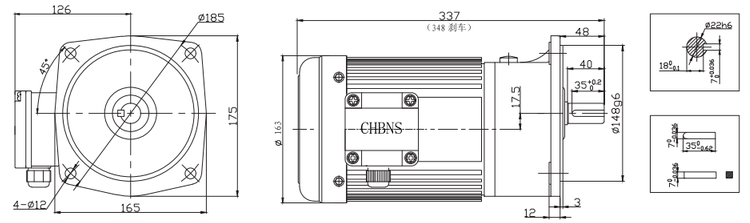
# 0.75KW

**GLF 型立式三相铝壳(刹车)马达减速机**
**GLF Vertical Type With Aluminum housing**
**3 Phase (Brake) Gear Motor”**



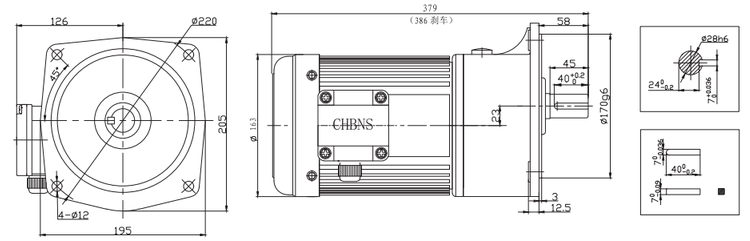
## GLF-22-750-3-30

**轻负载缩框型**
Light-load Frame-shrunk Type



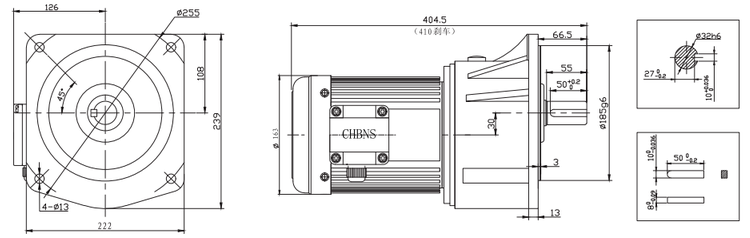

## GLF-28-750-3~25

**轻负载缩框型 GLF-28-750-30~120**
Light-load Frame-shrunk Type

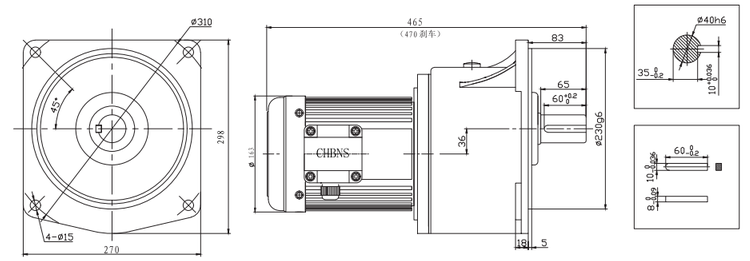



## GLF-32-750-30~120

**轻负载缩框型 GLF-32-750-130~200**
Light-load Frame-shrunk Type




## GLF-40-750-130~200



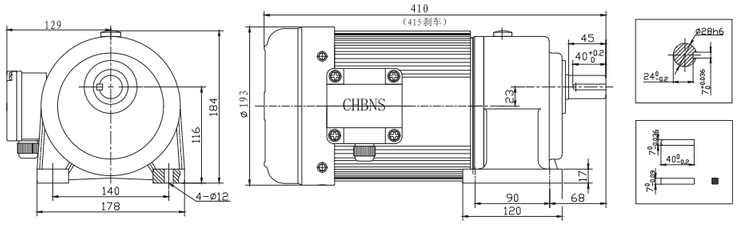

注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

# 1.5KW

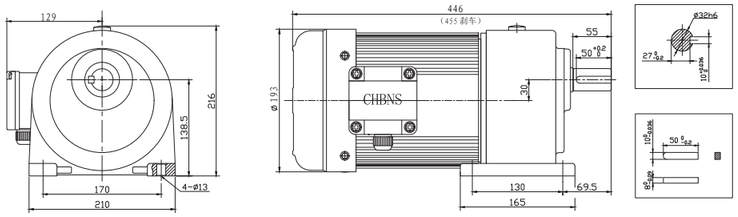
## GLW 型卧式三相铝壳(刹车)马达减速机
## GLW Horizontal Type With Aluminum housing
## 3 Phase (Brake) Gear Motor



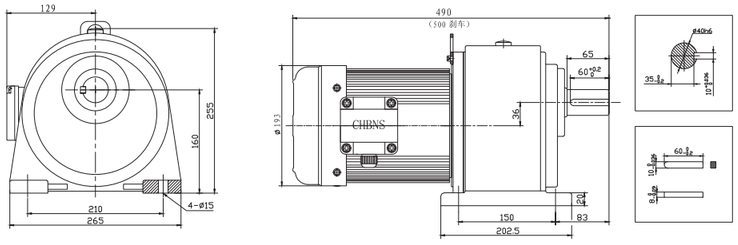
### GLW-28-1500-3-30
**轻负载缩框型**
Light-load Frame-shrunk Type



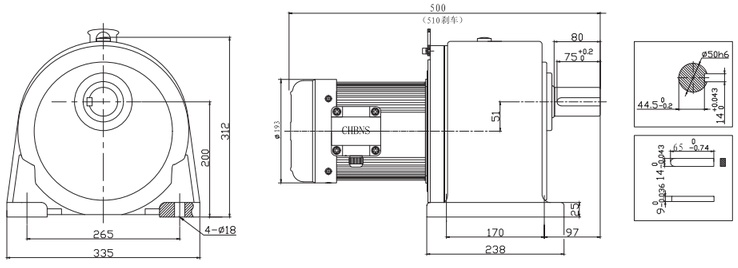

### GLW-32-1500-3~30
**轻负载缩框型 GLW-32-1500-40~160**
Light-load Frame-shrunk Type




### GLW-40-1500-35-120




### GLW-50-1500-110~200




注: 缩框型为轻负载,无大惯性场合中使用。为不正当设计,如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.



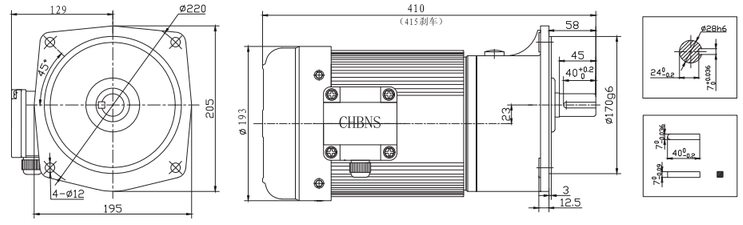
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# 1.5KW

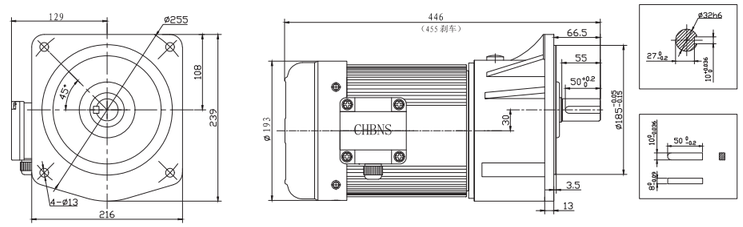
## GLF 型立式三相铝壳(刹车)马达减速机
## GLF Vertical Type With Aluminum housing
## 3 Phase (Brake) Gear Motor"



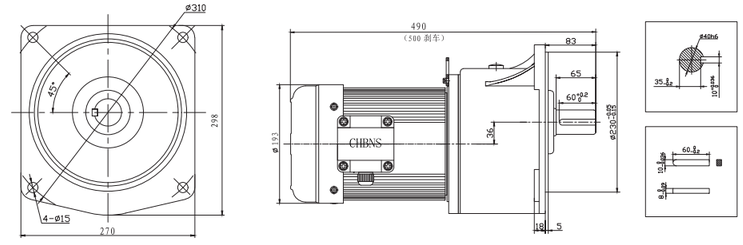
### GLF-28-1500-3-30
**轻负载缩框型**
Light-load Frame-shrunk Type



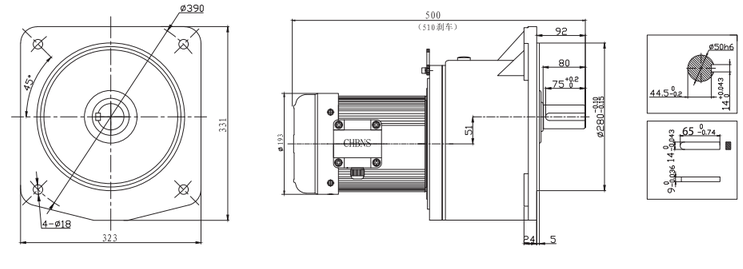

### GLF-32-1500-3~30
**轻负载缩框型 GLF-32-1500-40~160**
Light-load Frame-shrunk Type




### GLF-40-1500-35-120




### GLF-50-1500-110~200




注: 缩框型为轻负载,无大惯性场合中使用。为不正当设计,如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

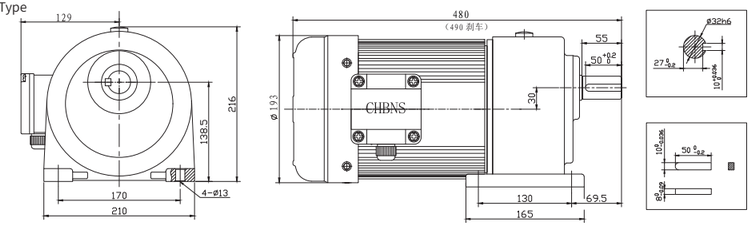
# 2.2KW

**GLW 型卧式三相铝壳(刹车)马达减速机**
**GLW Horizontal Type With Aluminum housing**
**3 Phase (Brake) Gear Motor**

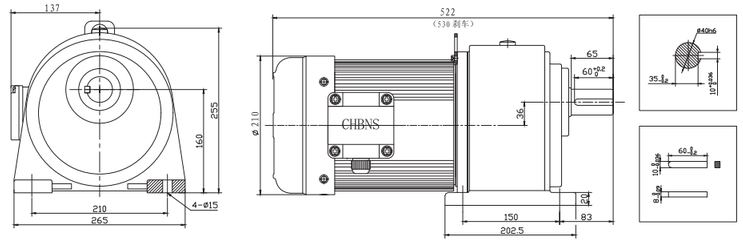


## GLW-32-2200-3~40

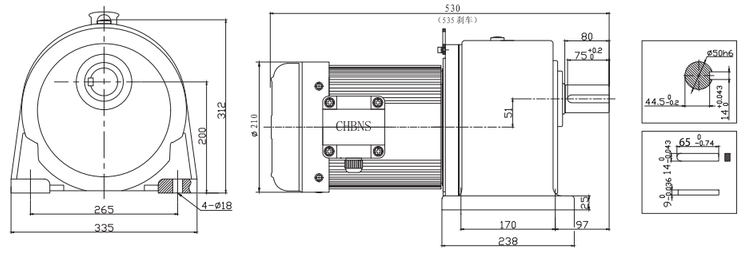
**轻负载缩框型 GLW-32-2200-3~30**
Light-load Frame-shrunk Type




## GLW-40-2200-3-120




## GLW-50-2200-50~100




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.





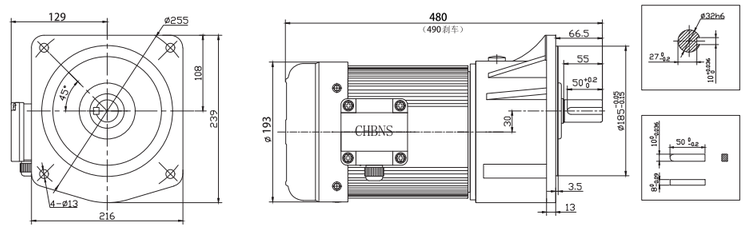
# 2.2KW

**GLF 型立式三相铝壳(刹车)马达减速机**
**GLF Vertical Type With Aluminum housing**
**3 Phase (Brake) Gear Motor”**

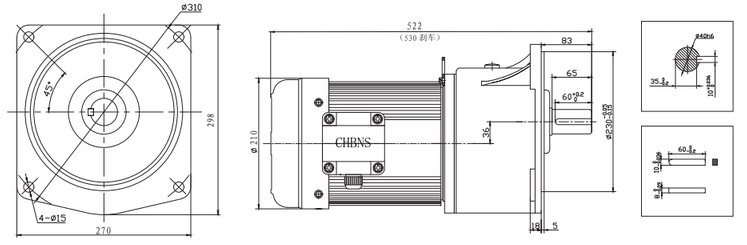


## GLF-32-2200-3~40

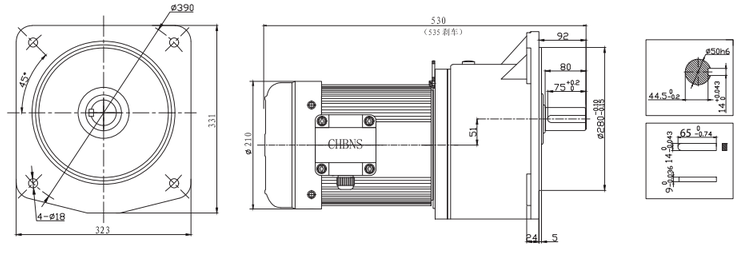
**轻负载缩框型 GLW-32-2200-3~30**
Light-load Frame-shrunk Type




## GLF-40-2200-3-120




## GLF-50-2200-50~100




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

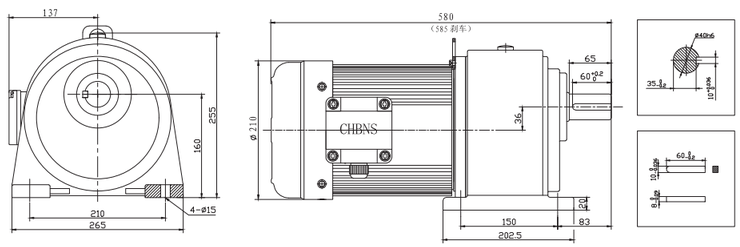
# 3.7KW

**GLW 型卧式三相铝壳(刹车)马达减速机**
**GLW Horizontal Type With Aluminum housing**
**3 Phase (Brake) Gear Motor**



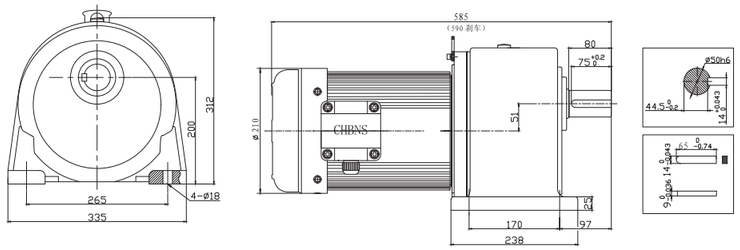
## GLW-40-3700-3~10

**轻负载缩框型 GLW-40-15~100**
Light-load Frame-shrunk Type




## GLW-50-3700-15~60

**轻负载缩框型 GLW-50-3700-70~120**
Light-load Frame-shrunk Type




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.





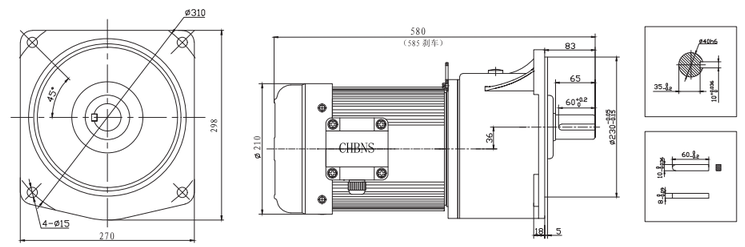
# 3.7KW

**GLF 型立式三相铝壳(刹车)马达减速机**
**GLF Vertical Type With Aluminum housing**
**3 Phase (Brake) Gear Motor**



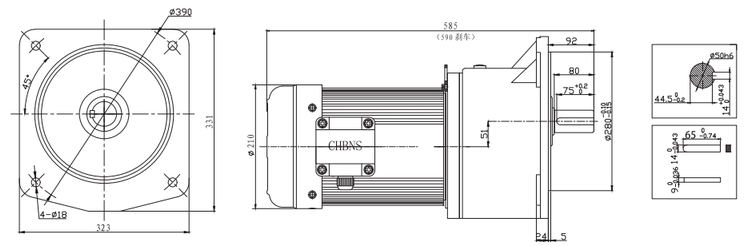
## GLF-40-3700-3~10

**轻负载缩框型 GLF-40-3700-15~100**
Light-load Frame-shrunk Type




## GLF-50-3700-15~60

**轻负载缩框型 GLF-50-3700-70120**
Light-load Frame-shrunk Type



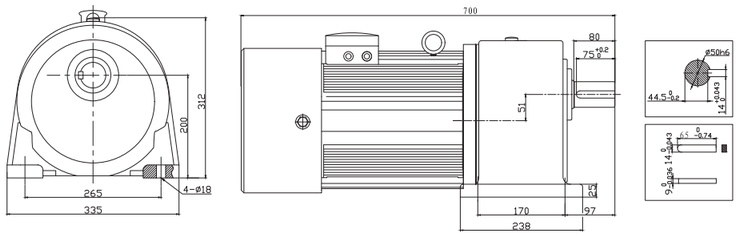

注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

# 5.5KW

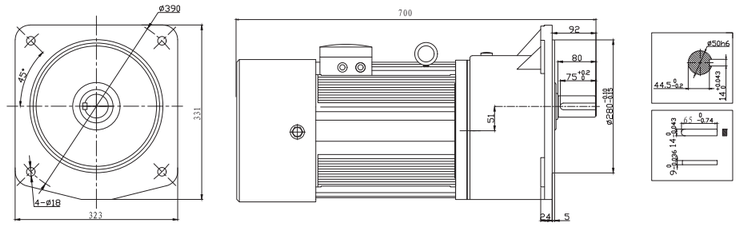
**GLW 型卧式三相铝壳(刹车)马达减速机**
**GLW Horizontal Type With Aluminum housing**
**3 Phase (Brake) Gear Motor**



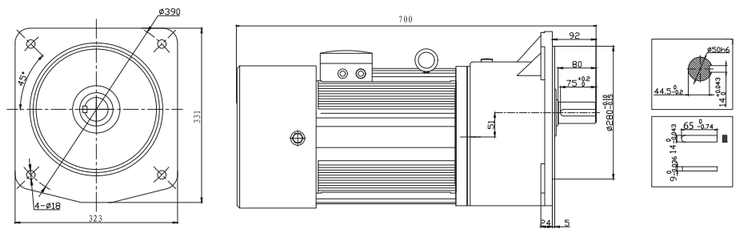
## GHW50-5.5KW




## GHF50-5.5KW




## 50-5.5KW



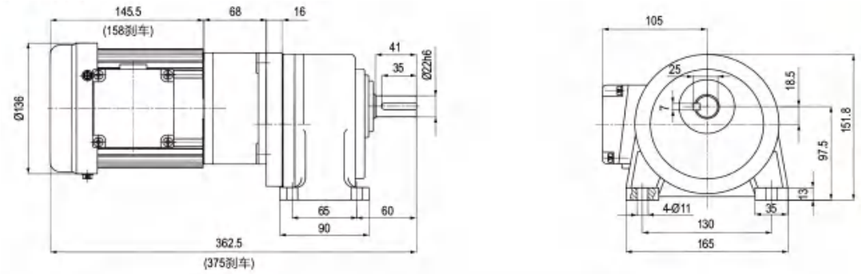

注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.



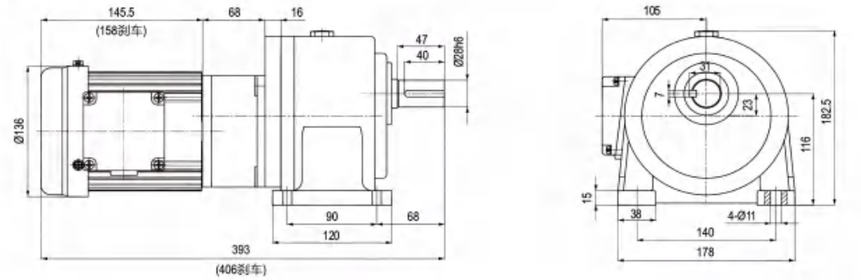


## 马达尺寸图
Dimensions GLWart

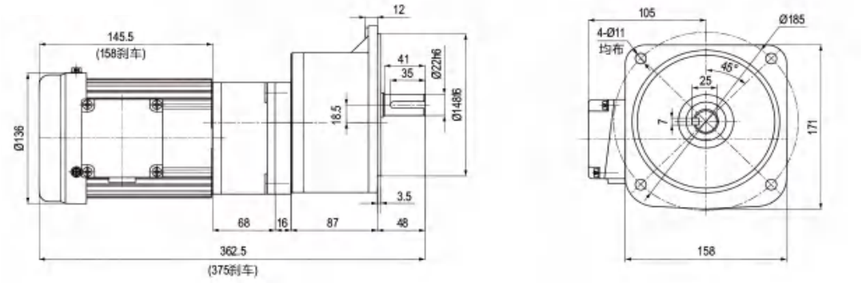
### GLW22+GLF18-100-250~1800 轻负载缩框型 Light-load Frame-shrunk Type



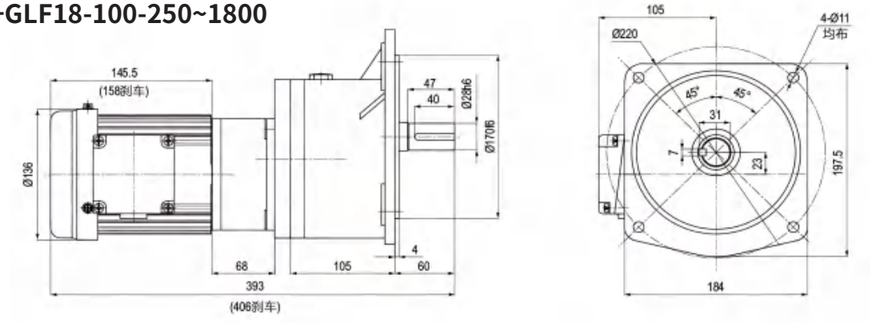

### GLW28+GLF18-100-250~1800




### GLF22+GLF18-100-250~1800 轻负载缩框型 Light-load Frame-shrunk Type



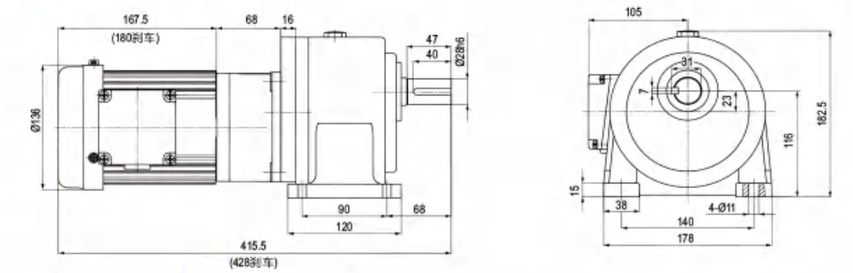

### GLF28+GLF18-100-250~1800



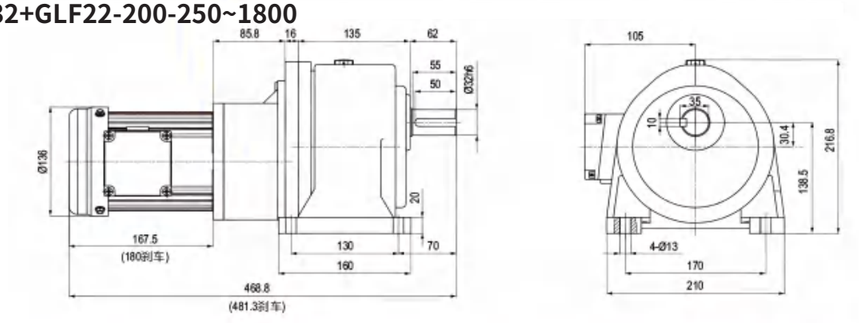

注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

## 马达尺寸图
Dimensions GLWart

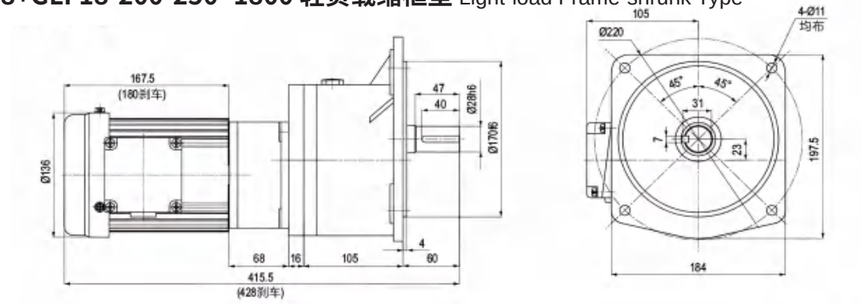
### GLW28+GLF18-200-250~1800 轻负载缩框型 Light-load Frame-shrunk Type



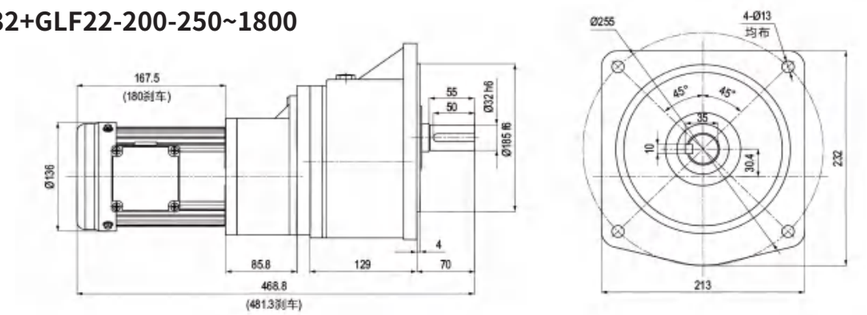

### GLW32+GLF22-200-250~1800




### GLF28+GLF18-200-250~1800 轻负载缩框型 Light-load Frame-shrunk Type




### GLF32+GLF22-200-250~1800



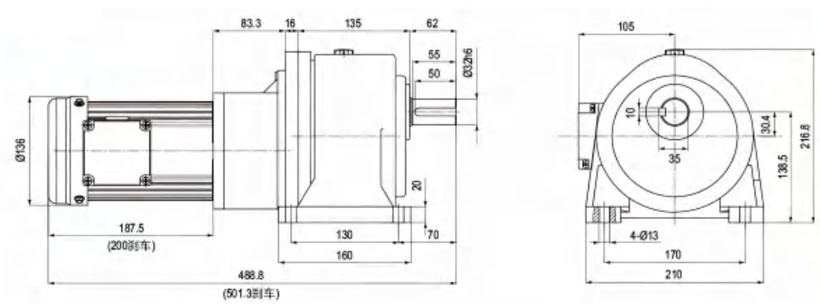

注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.



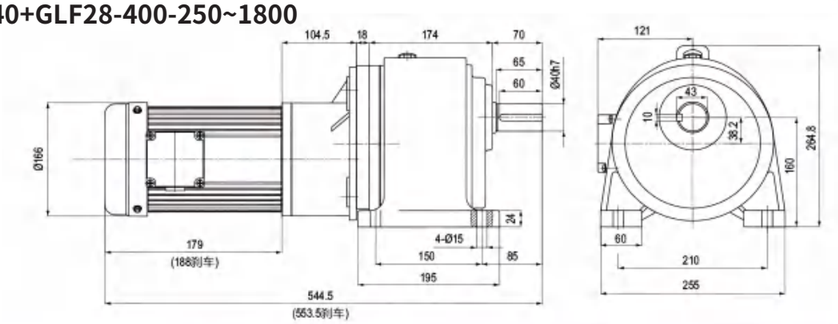
CHBNS 传承之道 稳行致远 THE WAY OF INHERITANCE IS STEADY AND FAR-REAGLWING
传动装置专业制造商 PROFESSIONAL MANUFACTURER OF TRANSMISSION DEVICE
GLW、GLF 组合型三相铝壳(刹车)马达减速机 GLW, GLF Combined - type Three - phase Aluminum - housing (Brake) Motor Reducer

## 马达尺寸图
Dimensions GLWart

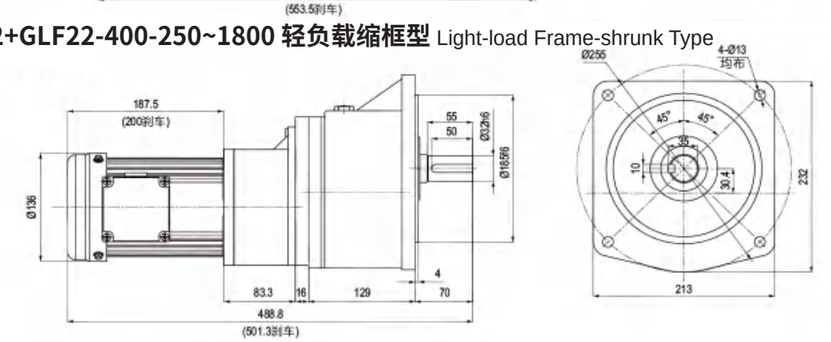
### GLW32+GLF22-400-250~1800 轻负载缩框型 Light-load Frame-shrunk Type



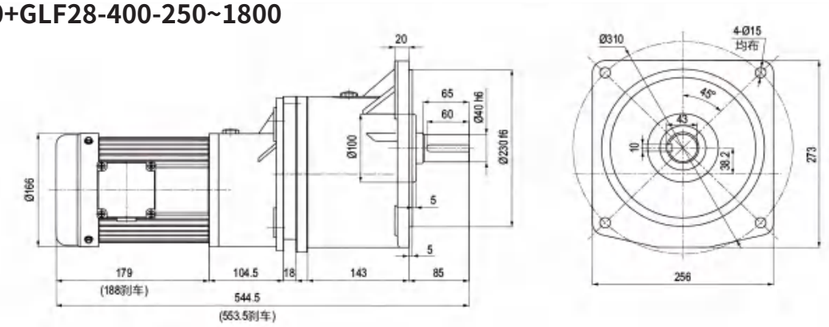

### GLW40+GLF28-400-250~1800




### GLF32+GLF22-400-250~1800 轻负载缩框型 Light-load Frame-shrunk Type



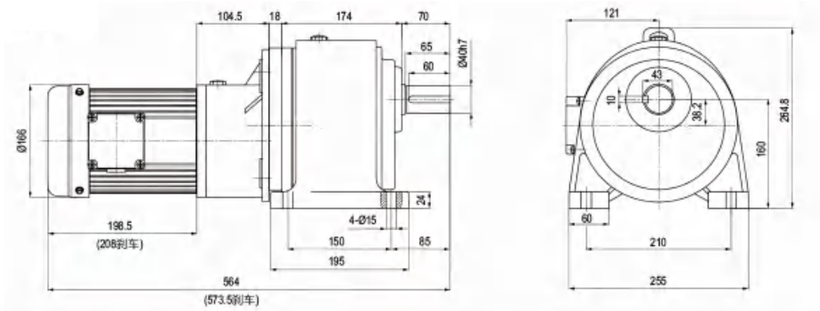

### GLF40+GLF28-400-250~1800



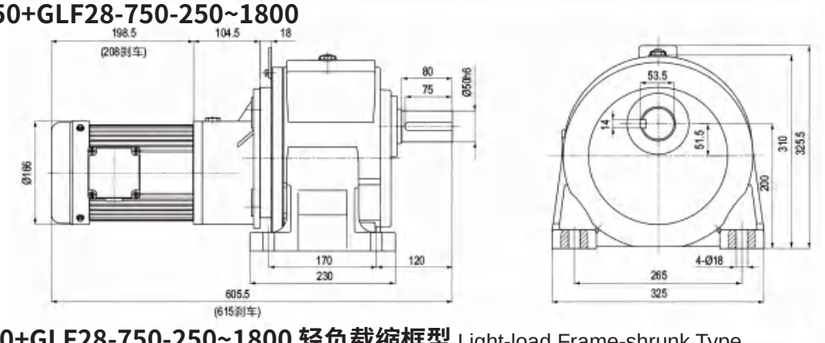

注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

## 马达尺寸图
Dimensions GLWart

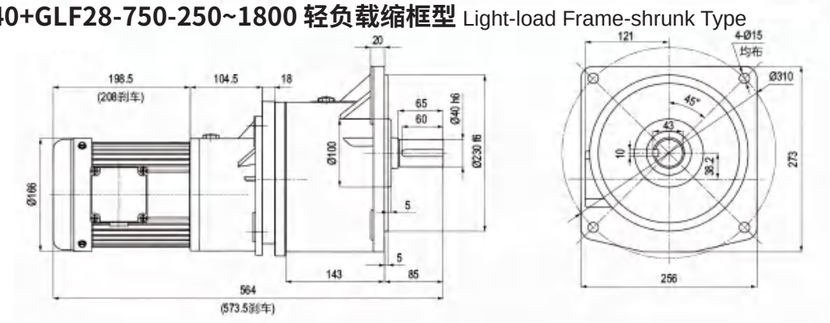
### GLW40+GLF28-750-250~1800 轻负载缩框型 Light-load Frame-shrunk Type



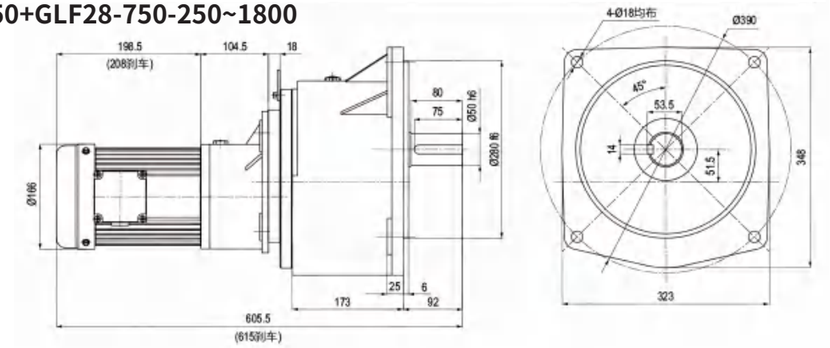

### GLW50+GLF28-750-250~1800




### GLF40+GLF28-750-250~1800 轻负载缩框型 Light-load Frame-shrunk Type

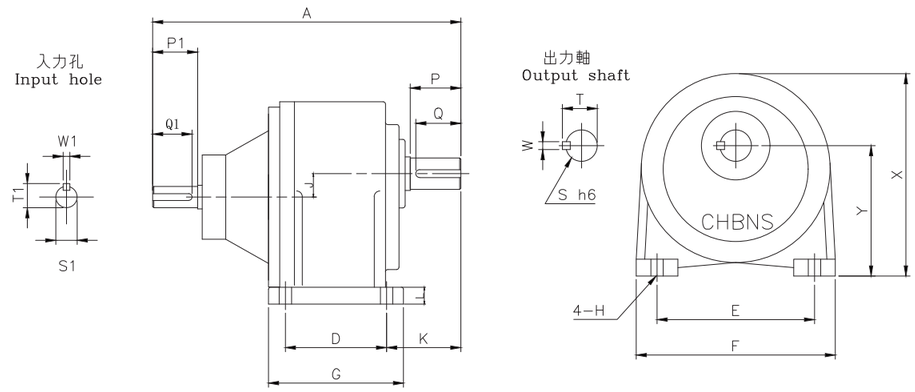



### GLF50+GLF28-750-250~1800




注：缩框型为轻负载，无大惯性场合中使用。为不正当设计，如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

## G系列(卧式)双轴型齿轮减速机 GSeries Horizontal Type Gear Reducer




## 马达尺寸表 Dimensions

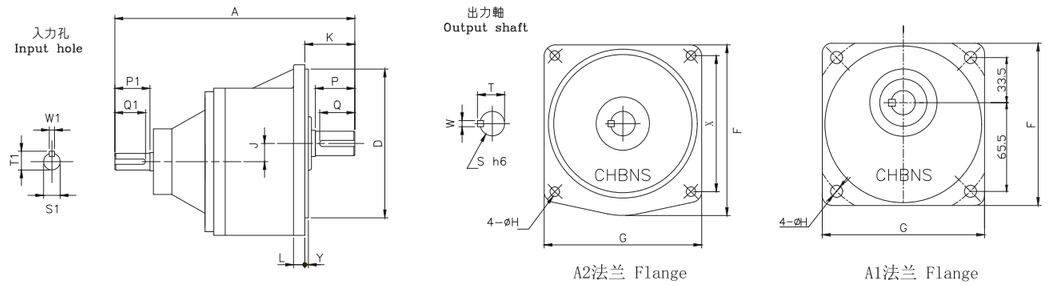
| 马力(KW) | 减速比 Gear Ratio | 框号 Type | A | D | E | X | F | G | H | J | K | L | Y | 出力轴端 Output Shaft | | | | | 入力轴端 Input Shaft | | | | | 重量 App.Wt.Kg | 备注 Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | P | Q | S | T | W | P1 | Q1 | S1 | T1 | W1 | | |
| 0.1KW | 3-50 | 18 | 167 | 40 | 110 | 135 | 65 | 9 | 16.5 | 50 | 10 | 133 | 88.5 | 64 | 30 | 27 | 18 | 20 | 5 | 25 | 22 | 14 | 15.5 | 4 | 3 |
| | 60-200 | 22 | 194 | 65 | 130 | 158 | 90 | 11 | 18 | 60 | 13 | 147 | 97.5 | 79.5 | 40 | 35 | 22 | 25 | 7 | 25 | 22 | 14 | 15.5 | 4 | 4.2 |
| 0.2KW | 5-10 | 18 | 167 | 40 | 110 | 135 | 65 | 9 | 16.5 | 50 | 10 | 133 | 88.5 | 64 | 30 | 27 | 18 | 20 | 5 | 25 | 22 | 14 | 15.5 | 4 | 3 |
| | 12.5-25 | 18* | 167 | 40 | 110 | 135 | 65 | 9 | 16.5 | 50 | 10 | 133 | 88.5 | 64 | 30 | 27 | 18 | 20 | 5 | 25 | 22 | 14 | 15.5 | 4 | 3 |
| | 12.5-100 | 22 | 194 | 65 | 130 | 158 | 90 | 11 | 18 | 60 | 13 | 147 | 97.5 | 79.5 | 40 | 35 | 22 | 25 | 7 | 25 | 22 | 14 | 15.5 | 4 | 4.2 |
| | 120-200 | 28 | 221 | 90 | 140 | 178 | 120 | 11 | 22 | 62 | 16 | 171 | 116 | 94 | 45 | 40 | 28 | 31 | 7 | 30 | 25 | 16 | 18 | 5 | 5.5 |
| 0.4KW | 5-10 | 22 | 194 | 65 | 130 | 158 | 90 | 11 | 18 | 60 | 13 | 147 | 97.5 | 79.5 | 40 | 35 | 22 | 25 | 7 | 25 | 22 | 14 | 15.5 | 4 | 4.2 |
| | 12.5-25 | 22* | 194 | 65 | 130 | 158 | 90 | 11 | 18 | 60 | 13 | 147 | 97.5 | 79.5 | 40 | 35 | 22 | 25 | 7 | 25 | 22 | 14 | 15.5 | 4 | 4.2 |
| | 12.5-100 | 28 | 221 | 90 | 140 | 178 | 120 | 11 | 22 | 62 | 16 | 171 | 116 | 94 | 45 | 40 | 28 | 31 | 7 | 30 | 25 | 16 | 18 | 5 | 5.5 |
| | 120-200 | 32 | 257 | 130 | 170 | 210 | 165 | 13 | 27 | 76.5 | 18 | 208 | 140 | 113 | 55 | 50 | 32 | 36.5 | 10 | 30 | 25 | 19 | 21 | 5 | 16 |
| 0.75KW | 5-25 | 28 | 221 | 90 | 140 | 178 | 120 | 11 | 22 | 62 | 16 | 171 | 116 | 94 | 45 | 40 | 28 | 31 | 7 | 30 | 25 | 16 | 18 | 5 | 6.5 |
| | 30-120 | 32 | 257 | 130 | 170 | 210 | 165 | 13 | 27 | 76.5 | 18 | 208 | 140 | 113 | 55 | 50 | 32 | 36.5 | 10 | 30 | 25 | 19 | 21 | 5 | 19.5 |
| | 120-200 | 40 | 305 | 150 | 210 | 265 | 198 | 15 | 32.5 | 89 | 24 | 252 | 162 | 129.5 | 65 | 60 | 40 | 44 | 10(12) | 35 | 30 | 24 | 27 | 7 | 38 |
| 1.5KW | 5-30 | 32 | 257 | 130 | 170 | 210 | 165 | 13 | 27 | 76.5 | 18 | 208 | 140 | 113 | 55 | 50 | 32 | 36.5 | 10 | 30 | 25 | 19 | 21 | 5 | 19.5 |
| | 40-100 | 40 | 305 | 150 | 210 | 265 | 198 | 15 | 32.5 | 89 | 24 | 252 | 162 | 129.5 | 65 | 60 | 40 | 44 | 10(12) | 35 | 30 | 24 | 27 | 7 | 38 |
| | 120-200 | 50 | 352 | 170 | 265 | 210 | 210 | 18 | 40 | 120 | 31 | 305 | 200 | 160 | 75 | 70 | 50 | 53.5 | 14 | 45 | 40 | 28 | 31 | 8 | 51.2 |
| 2.2KW | 15-60 | 40 | 305 | 150 | 210 | 265 | 198 | 15 | 32.5 | 89 | 24 | 252 | 162 | 129.5 | 65 | 60 | 40 | 44 | 10(12) | 35 | 30 | 28 | 27 | 7 | 39 |
| | 75-120 | 50 | 352 | 170 | 265 | 321 | 210 | 18 | 40 | 120 | 31 | 305 | 200 | 160 | 75 | 70 | 50 | 53.5 | 14 | 45 | 40 | 28 | 31 | 8 | 53 |
| 3.7KW | 5-20 | 40 | 305 | 150 | 210 | 265 | 198 | 15 | 32.5 | 89 | 24 | 252 | 162 | 129.5 | 65 | 60 | 40 | 44 | 10(12) | 35 | 30 | 28 | 27 | 7 | 39 |
| | 25-100 | 50 | 352 | 170 | 265 | 321 | 210 | 18 | 40 | 120 | 31 | 305 | 200 | 160 | 75 | 70 | 50 | 53.5 | 14 | 45 | 40 | 28 | 31 | 8 | 53 |

1.* 为轻扭力之机型 /*Indicates motor of amaller torque.
2.40~50筒齿箱上附加O型吊环(高度约 50mm)/ “O” type rings shall be attached to the 40~50mm gear box. (add.Height:50mm)
< 以上数值若有变动, 恕不另行通知 >/We reserve the right to change without further notice.





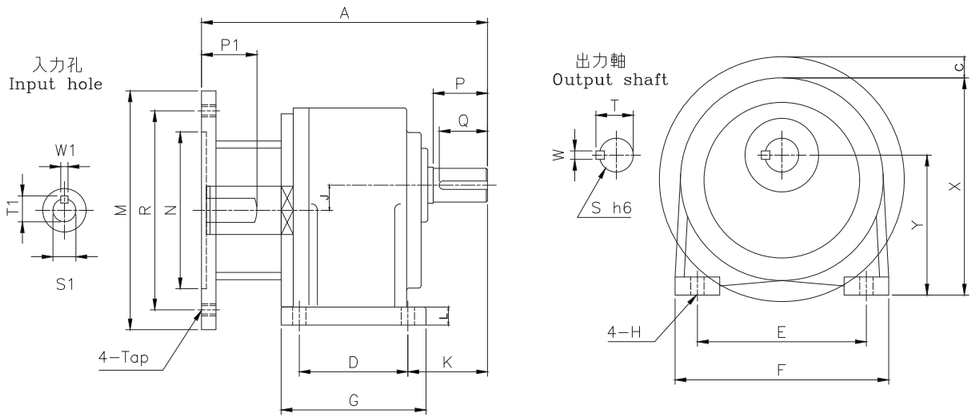
## G系列(立式)双轴型齿轮减速机 Gseries Vertical Type Gear Reducer




## 马达尺寸表 Dimensions

| 马力(KW) | 减速比 Gear Ratio | 框号 Type | A | D | E | X | F | G | H | J | K | L | Y | 出力轴端 Output Shaft | | | | | 入力轴端 Input Shaft | | | | | 重量 App.Wt.Kg | 备注 Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | P | Q | S | T | W | P1 | Q1 | S1 | T1 | W1 | | |
| 0.1KW | 3-50 | 18 | 167 | 50 | 140 | 99 | 120 | 120 | 9 | 16.5 | 40 | 12 | 6 | 30 | 27 | 18 | 20 | 5 | 25 | 22 | 14 | 15.5 | 4 | 3 | A1法兰 |
| | 60-200 | 22 | 194 | 148 | 185 | 131 | 175 | 165 | 11 | 18 | 48 | 12 | 3 | 40 | 35 | 22 | 25 | 7 | 25 | 22 | 14 | 15.5 | 4 | 4.2 | A2法兰 |
| 0.2KW | 5-10 | 18 | 167 | 50 | 140 | 99 | 120 | 120 | 9 | 16.5 | 40 | 12 | 6 | 30 | 27 | 18 | 20 | 5 | 25 | 22 | 14 | 15.5 | 4 | 3 | A1法兰 |
| | 12.5-25 | 18* | 167 | 50 | 140 | 99 | 120 | 120 | 9 | 16.5 | 40 | 12 | 6 | 30 | 27 | 18 | 20 | 5 | 25 | 22 | 14 | 15.5 | 4 | 3 | A1法兰 |
| | 12.5-100 | 22 | 174 | 148 | 185 | 131 | 175 | 165 | 11 | 18 | 48 | 12 | 3 | 40 | 35 | 22 | 25 | 7 | 25 | 22 | 14 | 15.5 | 4 | 4.2 | A2法兰 |
| | 120-200 | 28 | 221 | 170 | 220 | 156 | 205 | 195 | 12 | 22 | 51 | 16 | 3 | 45 | 40 | 28 | 31 | 7 | 30 | 25 | 16 | 18 | 5 | 5.5 | A2法兰 |
| 0.4KW | 5-10 | 22 | 194 | 148 | 185 | 131 | 175 | 165 | 11 | 18 | 48 | 12 | 3 | 40 | 35 | 22 | 25 | 7 | 25 | 22 | 14 | 15.5 | 4 | 4.2 | A2法兰 |
| | 12.5-25 | 22* | 194 | 148 | 185 | 131 | 175 | 165 | 11 | 18 | 48 | 12 | 3 | 40 | 35 | 22 | 25 | 7 | 25 | 22 | 14 | 15.5 | 4 | 4.2 | A2法兰 |
| | 12.5-100 | 28 | 221 | 170 | 220 | 156 | 205 | 195 | 12 | 22 | 51 | 16 | 3 | 45 | 40 | 28 | 31 | 7 | 30 | 25 | 16 | 18 | 5 | 5.5 | A2法兰 |
| | 120-200 | 32 | 257 | 185 | 255 | 180 | 248 | 225 | 15 | 27 | 65 | 16 | 3 | 55 | 50 | 32 | 36.5 | 10 | 30 | 25 | 19 | 21 | 5 | 16 | A2法兰 |
| 0.75KW | 5-25 | 28 | 221 | 170 | 220 | 156 | 205 | 195 | 12 | 22 | 51 | 16 | 3 | 45 | 40 | 28 | 31 | 7 | 30 | 25 | 16 | 18 | 5 | 6.5 | A2法兰 |
| | 30-120 | 32 | 257 | 185 | 255 | 180 | 248 | 225 | 15 | 27 | 65 | 16 | 3 | 55 | 50 | 32 | 36.5 | 10 | 30 | 25 | 19 | 21 | 5 | 19.5 | A2法兰 |
| | 120-200 | 40 | 305 | 230 | 310 | 219 | 291 | 272 | 15 | 32.5 | 85 | 20 | 5 | 65 | 60 | 40 | 44 | 10(12) | 35 | 30 | 24 | 27 | 7 | 38 | A2法兰 |
| 1.5KW | 5-30 | 32 | 257 | 185 | 255 | 180 | 248 | 225 | 15 | 27 | 65 | 16 | 3 | 55 | 50 | 32 | 36.5 | 10 | 30 | 25 | 19 | 21 | 5 | 19.5 | A2法兰 |
| | 40-100 | 40 | 305 | 230 | 310 | 219 | 291 | 272 | 15 | 32.5 | 85 | 20 | 5 | 65 | 60 | 40 | 44 | 10(12) | 35 | 30 | 24 | 27 | 7 | 38 | A2法兰 |
| | 120-200 | 50 | 352 | 280 | 390 | 276 | 372 | 342 | 18 | 40 | 92 | 21 | 5 | 75 | 70 | 50 | 53.5 | 14 | 45 | 40 | 28 | 31 | 8 | 51.2 | A2法兰 |
| 2.2KW | 15-60 | 40 | 305 | 230 | 310 | 219 | 291 | 272 | 15 | 32.5 | 85 | 20 | 5 | 65 | 60 | 40 | 44 | 10(12) | 35 | 30 | 28 | 27 | 7 | 39 | A2法兰 |
| | 75-120 | 50 | 352 | 280 | 390 | 276 | 372 | 342 | 18 | 40 | 92 | 21 | 5 | 75 | 70 | 50 | 53.5 | 14 | 45 | 40 | 28 | 31 | 8 | 53 | A2法兰 |
| 3.7KW | 5-20 | 40 | 305 | 230 | 310 | 219 | 291 | 272 | 15 | 32.5 | 85 | 20 | 5 | 65 | 60 | 40 | 44 | 10(12) | 35 | 30 | 28 | 27 | 7 | 39 | A2法兰 |
| | 25-100 | 50 | 352 | 280 | 390 | 276 | 372 | 342 | 18 | 40 | 92 | 21 | 5 | 75 | 70 | 50 | 53.5 | 14 | 45 | 40 | 28 | 31 | 8 | 53 | A2法兰 |

1.* 为轻扭力之机型。
1.* Indicates motor of amaller torque.
< 以上数值若有变动, 恕不另行通知 >/We reserve the right to change without further notice.




## 马达尺寸表 Dimensions

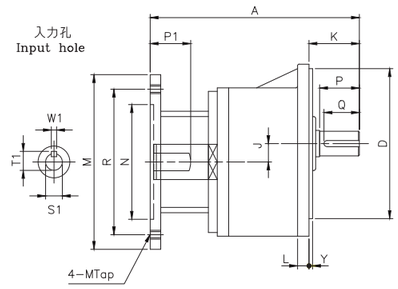
| 马力 (KW) | 减速比 Gear Ratio | 框号 Type | A | B | C | D | E | F | G | H | J | K | L | M | N | R | X | Y | Z | 入力轴端 Input Shaft | | | | 出力轴端 Output Shaft | | | | | 重量 App.Wt.Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | P1 | S1 | T1 | W1 | P | Q | S | T | W | |
| 0.1KW | 3-50 | 18 | 155 | 11 | 22 | 40 | 110 | 135 | 65 | 9 | 16.5 | 50 | 10 | 140 | 95 | 115 | 133 | 88.5 | 4 | 26 | 11 | 12.7 | 4 | 30 | 27 | 18 | 20.2 | 5 | 5 |
| | 60-200 | 22 | 175 | 8 | 8 | 65 | 130 | 158 | 90 | 11 | 18 | 60 | 13 | 140 | 95 | 115 | 147 | 97.5 | 4 | 26 | 11 | 12.7 | 4 | 40 | 35 | 22 | 25 | 7 | 6.2 |
| 0.2KW | 3-10 | 18 | 155 | 11 | 22 | 40 | 110 | 135 | 65 | 9 | 16.5 | 50 | 10 | 140 | 95 | 115 | 133 | 88.5 | 4 | 26 | 11 | 12.7 | 4 | 30 | 17 | 18 | 20.2 | 5 | 5 |
| | 12.5-25 | 18* | 155 | 11 | 22 | 40 | 110 | 135 | 65 | 9 | 16.5 | 50 | 10 | 140 | 95 | 115 | 133 | 88.5 | 4 | 26 | 11 | 12.7 | 4 | 30 | 17 | 18 | 20.2 | 5 | 5 |
| | 12.5-100 | 22 | 175 | 8 | 8 | 65 | 130 | 158 | 90 | 11 | 18 | 60 | 13 | 140 | 95 | 115 | 147 | 97.5 | 4 | 26 | 11 | 12.7 | 4 | 40 | 35 | 22 | 25 | 7 | 6.2 |
| | 120-200 | 28 | 191 | - | - | 90 | 140 | 178 | 120 | 11 | 22 | 62 | 16 | 140 | 95 | 115 | 171 | 116 | 4 | 26 | 11 | 12.7 | 4 | 45 | 40 | 28 | 31 | 7 | 7.5 |
| 0.4KW | 3-10 | 22 | 185 | 8 | 8 | 65 | 130 | 158 | 90 | 11 | 18 | 60 | 13 | 140 | 95 | 115 | 147 | 97.5 | 4 | 33 | 14 | 16.2 | 5 | 40 | 35 | 22 | 25 | 7 | 6.2 |
| | 12.5-25 | 22* | 185 | 8 | 8 | 65 | 130 | 158 | 90 | 11 | 18 | 60 | 13 | 160 | 110 | 130 | 147 | 97.5 | 4 | 33 | 14 | 16.2 | 5 | 40 | 35 | 22 | 25 | 7 | 6.2 |
| | 12.5-100 | 28 | 201 | - | - | 90 | 140 | 178 | 120 | 11 | 22 | 62 | 16 | 160 | 110 | 130 | 171 | 116 | 4 | 33 | 14 | 16.2 | 5 | 45 | 40 | 28 | 31 | 7 | 7.5 |
| | 120-200 | 32 | 226 | - | - | 130 | 170 | 210 | 165 | 13 | 27 | 76.5 | 18 | 160 | 110 | 130 | 208 | 140 | 4 | 33 | 14 | 16.2 | 5 | 55 | 50 | 32 | 36.5 | 10 | 19 |
| 0.75KW | 3-25 | 28 | 201 | 13.5 | - | 90 | 140 | 178 | 120 | 11 | 22 | 62 | 16 | 200 | 130 | 165 | 171 | 116 | 4.5 | 43 | 19 | 21.7 | 6 | 45 | 40 | 28 | 31 | 7 | 7.5 |
| | 30-120 | 32 | 230 | - | - | 130 | 170 | 210 | 165 | 13 | 27 | 76.5 | 18 | 200 | 130 | 165 | 208 | 140 | 4..5 | 43 | 19 | 21.7 | 6 | 55 | 50 | 32 | 36.5 | 10 | 20.5 |
| | 120-200 | 40 | 259 | - | - | 150 | 210 | 265 | 198 | 15 | 32.5 | 89 | 24 | 200 | 130 | 165 | 252 | 162 | 4.5 | 43 | 19 | 21.7 | 6 | 65 | 60 | 40 | 44 | 10 (12) | 39 |
| 1.5KW | 3-30 | 32 | 246 | - | - | 130 | 170 | 210 | 165 | 13 | 27 | 76.5 | 18 | 200 | 130 | 165 | 208 | 140 | 4.5 | 53 | 24 | 27.2 | 8 | 55 | 50 | 32 | 36.5 | 10 | 20.5 |
| | 40-100 | 40 | 275 | - | - | 150 | 210 | 265 | 198 | 15 | 32.5 | 89 | 24 | 200 | 130 | 165 | 252 | 162 | 4.5 | 53 | 24 | 27.2 | 8 | 65 | 60 | 40 | 44 | 10 (12) | 39 |
| | 120-200 | 50 | 317 | - | - | 170 | 265 | 321 | 238 | 18 | 40 | 120 | 31 | 200 | 130 | 165 | 305 | 200 | 4.5 | 53 | 24 | 27.2 | 8 | 80 | 75 | 50 | 53.5 | 14 | 52.2 |
| 2.2KW | 15-60 | 40 | 280 | 3 | - | 150 | 210 | 265 | 198 | 15 | 32.5 | 89 | 24 | 250 | 180 | 215 | 252 | 162 | 4.5 | 63 | 28 | 31.2 | 8 | 65 | 60 | 40 | 44 | 10 (12) | 40 |
| | 75-120 | 50 | 323 | - | - | 170 | 265 | 321 | 238 | 18 | 40 | 120 | 31 | 250 | 180 | 215 | 305 | 200 | 4.5 | 63 | 28 | 31.2 | 8 | 80 | 75 | 50 | 53.5 | 14 | 54 |
| 3.7KW | 3-20 | 40 | 280 | 3 | - | 150 | 210 | 265 | 198 | 15 | 32.5 | 89 | 24 | 250 | 180 | 215 | 252 | 162 | 4.5 | 63 | 28 | 31.2 | 8 | 65 | 60 | 40 | 44 | 10 (12) | 40 |
| | 25-100 | 50 | 323 | - | - | 170 | 265 | 321 | 238 | 18 | 40 | 120 | 34 | 250 | 180 | 215 | 305 | 200 | 4.5 | 63 | 28 | 31.2 | 8 | 80 | 75 | 50 | 53.5 | 14 | 54 |

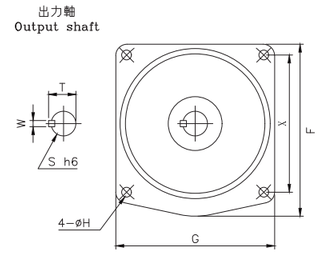
1. *为轻扭力之机型 /*Indicates motor of smaller torque.
2. 40 - 50 筒齿箱上附加 O 型吊环（高度约 50mm）/"O" type rings shall be attached to the 40 - 50mm gear box. (add.Height:50mm)
3. 中间堑螺丝孔 0.1 - 0.4 为 M8　0.75 - 1.5 为 M10　.2 - 3.7 为 M12/Central screw hole for 0.1 - 0.4 motor shall be M8　Central screw hole for 0.75 - 1.5 motor shall be M10　Central screw hole for 2.2 - 3.7 motor shall be M12

<以上数值若有变动，恕不另行通知>/We reserve the right to change without further notice.

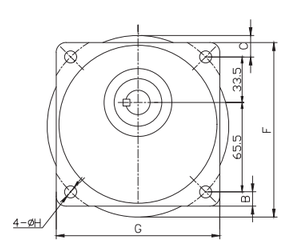


CHBNS 传承之道 稳行致远
THE WAY OF INHERITANCE IS STEADY AND FAR-REAGLWING
传动装置专业制造商
PROFESSIONAL MANUFACTURER OF TRANSMISSION DEVICE
IEC 法兰直连齿轮箱 IEC flange direct-coupled gearbox




A2法兰 Flange




A1法兰 Flange

## 马达尺寸表 Dimensions

| 马力 (KW) | 减速比 Gear Ratio | 框号 Type | A | B | C | D | E | X | F | G | H | J | K | L | M | N | R | Y | Z | 入力轴端 Input Shaft | | | | 出力轴端 Output Shaft | | | | | 重量 App.Wt.Kg | 备注 Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | P1 | S1 | T1 | W1 | P | Q | S | T | W | | |
| 0.1KW | 3-50 | 18 | 155 | 20 | 20 | 50 | 140 | 99 | 120 | 120 | 9 | 16.5 | 40 | 12 | 140 | 95 | 115 | 6 | 4 | 26 | 11 | 12.7 | 4 | 30 | 27 | 27 | 20.2 | 5 | 5 | A1法兰 |
| | 60-200 | 22 | 175 | 7 | - | 148 | 185 | 131 | 175 | 165 | 11 | 18 | 48 | 12 | 140 | 95 | 115 | 3 | 4 | 26 | 11 | 12.7 | 4 | 40 | 35 | 22 | 25 | 7 | 6.2 | A2法兰 |
| 0.2KW | 3-10 | 18 | 155 | 20 | 20 | 50 | 140 | 99 | 120 | 120 | 9 | 16.5 | 40 | 12 | 140 | 95 | 115 | 6 | 4 | 26 | 11 | 12.7 | 4 | 30 | 17 | 18 | 20.2 | 5 | 5 | A1法兰 |
| | 12.5-25 | 18* | 155 | 20 | 20 | 50 | 140 | 99 | 120 | 120 | 9 | 16.5 | 40 | 12 | 140 | 95 | 115 | 6 | 4 | 26 | 11 | 12.7 | 4 | 30 | 17 | 18 | 20.2 | 5 | 5 | A1法兰 |
| | 12.5-100 | 22 | 175 | 7 | - | 148 | 185 | 131 | 175 | 165 | 11 | 18 | 48 | 12 | 140 | 95 | 115 | 3 | 4 | 26 | 11 | 12.7 | 4 | 40 | 35 | 22 | 25 | 7 | 6.2 | A2法兰 |
| | 120-200 | 28 | 191 | - | - | 170 | 220 | 156 | 205 | 195 | 12 | 22 | 51 | 16 | 140 | 95 | 115 | 3 | 4 | 26 | 11 | 12.7 | 4 | 45 | 40 | 28 | 31 | 7 | 7.5 | A2法兰 |
| 0.4KW | 3-10 | 22 | 185 | 7 | - | 148 | 185 | 131 | 175 | 165 | 11 | 18 | 48 | 12 | 160 | 110 | 130 | 3 | 4 | 33 | 14 | 16.2 | 5 | 40 | 35 | 22 | 25 | 7 | 6.2 | A2法兰 |
| | 12.5-25 | 22* | 185 | 7 | - | 148 | 185 | 131 | 175 | 165 | 11 | 18 | 48 | 12 | 160 | 110 | 130 | 3 | 4 | 33 | 14 | 16.2 | 5 | 40 | 35 | 22 | 25 | 7 | 6.2 | A2法兰 |
| | 12.5-100 | 28 | 201 | - | - | 170 | 220 | 156 | 205 | 195 | 12 | 22 | 51 | 16 | 160 | 100 | 130 | 3 | 4 | 33 | 14 | 16.2 | 5 | 45 | 40 | 28 | 31 | 7 | 7.5 | A2法兰 |
| | 120-200 | 32 | 226 | - | - | 185 | 255 | 180 | 248 | 225 | 15 | 27 | 65 | 16 | 160 | 100 | 130 | 3 | 4 | 33 | 14 | 16.2 | 5 | 55 | 50 | 32 | 36.5 | 10 | 19 | A2法兰 |
| 0.75KW | 3-25 | 28 | 201 | 17.5 | - | 170 | 220 | 156 | 205 | 195 | 12 | 22 | 51 | 16 | 200 | 130 | 165 | 3 | 4.5 | 43 | 19 | 21.7 | 6 | 45 | 40 | 28 | 31 | 7 | 7.5 | A2法兰 |
| | 30-120 | 32 | 230 | 2 | - | 185 | 255 | 180 | 248 | 225 | 15 | 27 | 65 | 16 | 200 | 130 | 165 | 3 | 4..5 | 43 | 19 | 21.7 | 6 | 55 | 50 | 32 | 36.5 | 10 | 20.5 | A2法兰 |
| | 120-200 | 40 | 259 | - | - | 230 | 310 | 219 | 291 | 272 | 15 | 32.5 | 85 | 20 | 200 | 130 | 165 | 5 | 4.5 | 43 | 19 | 21.7 | 6 | 65 | 60 | 40 | 44 | 10 (12) | 39 | A2法兰 |
| 1.5KW | 3-30 | 32 | 246 | 2 | - | 185 | 255 | 180 | 248 | 225 | 15 | 27 | 65 | 16 | 200 | 130 | 165 | 3 | 4.5 | 53 | 24 | 27.2 | 8 | 55 | 50 | 32 | 36.5 | 10 | 20.5 | A2法兰 |
| | 40-100 | 40 | 275 | - | - | 230 | 310 | 219 | 291 | 272 | 15 | 32.5 | 85 | 20 | 200 | 130 | 165 | 5 | 4.5 | 53 | 24 | 27.2 | 8 | 65 | 60 | 40 | 44 | 10 (12) | 39 | A2法兰 |
| | 120-200 | 50 | 317 | 13.5 | - | 280 | 390 | 276 | 372 | 342 | 18 | 40 | 92 | 21 | 200 | 130 | 165 | 5 | 4.5 | 53 | 24 | 27.2 | 8 | 80 | 75 | 50 | 53.5 | 14 | 52.2 | A2法兰 |
| 2.2KW | 15-60 | 40 | 280 | 2.5 | - | 230 | 310 | 219 | 291 | 272 | 15 | 32.5 | 85 | 20 | 250 | 180 | 215 | 5 | 4.5 | 63 | 28 | 31.2 | 8 | 65 | 60 | 40 | 44 | 10 (12) | 40 | A2法兰 |
| | 75-120 | 50 | 323 | 13.5 | - | 280 | 390 | 276 | 372 | 342 | 18 | 40 | 92 | 21 | 250 | 180 | 215 | 5 | 4.5 | 63 | 28 | 31.2 | 8 | 80 | 75 | 50 | 53.5 | 14 | 54 | A2法兰 |
| 3.7KW | 3-20 | 40 | 280 | 2.5 | - | 230 | 310 | 219 | 291 | 272 | 15 | 32.5 | 85 | 20 | 250 | 180 | 215 | 5 | 4.5 | 63 | 28 | 31.2 | 8 | 65 | 60 | 40 | 44 | 10 (12) | 40 | A2法兰 |
| | 25-100 | 50 | 323 | 13.5 | - | 280 | 390 | 276 | 372 | 342 | 18 | 40 | 92 | 21 | 250 | 180 | 215 | 5 | 4.5 | 63 | 28 | 31.2 | 8 | 80 | 75 | 50 | 53.5 | 14 | 54 | A2法兰 |

1. *为轻扭力之机型 /*Indicates motor of smaller torque.
2. 40 - 50 筒齿箱上附加 O 型吊环（高度约 50mm）/"O" type rings shall be attached to the 40 - 50mm gear box. (add.Height:50mm)
3. 中间堑螺丝孔 0.1 - 0.4 为 M8　0.75 - 1.5 为 M10　.2 - 3.7 为 M12/Central screw hole for 0.1 - 0.4 motor shall be M8　Central screw hole for 0.75 - 1.5 motor shall be M10　Central screw hole for 2.2 - 3.7 motor shall be M12
<以上数值若有变动，恕不另行通知>/We reserve the right to change without further notice.